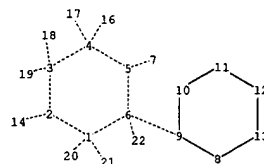
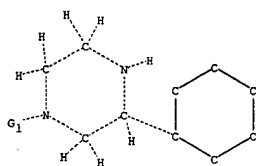


R1=H (newly added)
Query
4-16-02



chain nodes :

7 14 16 17 18 19 20 21 22

ring nodes :

1 2 3 4 5 6 8 9 10 11 12 13

chain bonds :

1-20 1-21 2-14 3-18 3-19 4-16 4-17 5-7 6-9 6-22

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13

exact/norm bonds :

1-2 1-6 1-20 1-21 2-3 2-14 3-4 3-18 3-19 4-5 4-16 4-17 5-6
5-7 6-9 6-22 8-9 8-13 9-10 10-11 11-12 12-13

G1:CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:Atom 14:CLASS 16:CLASS 17:CLASS
18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web
NEWS 3 Jan 25 Searching with the P indicator for Preparations
NEWS 4 Jan 29 FSTA has been reloaded and moves to weekly updates
NEWS 5 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update
frequency
NEWS 6 Feb 19 Access via Tymnet and SprintNet Eliminated Effective 3/31/02
NEWS 7 Mar 08 Gene Names now available in BIOSIS
NEWS 8 Mar 22 TOXLIT no longer available
NEWS 9 Mar 22 TRCTHERMO no longer available
NEWS 10 Mar 28 US Provisional Priorities searched with P in CA/CAplus
and USPATFULL
NEWS 11 Mar 28 LIPINSKI/CALC added for property searching in REGISTRY
NEWS 12 Apr 02 PAPERCHEM no longer available on STN. Use PAPERCHEM2 instead.
NEWS 13 Apr 08 "Ask CAS" for self-help around the clock
NEWS 14 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 15 Apr 09 ZDB will be removed from STN

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 12:49:24 ON 16 APR 2002

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 12:49:30 ON 16 APR 2002

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STRUCTURE FILE UPDATES: 15 APR 2002 HIGHEST RN 405259-61-2
DICTIONARY FILE UPDATES: 15 APR 2002 HIGHEST RN 405259-61-2

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the
CAS Registry Numbers that were added to the H/Z/CA/CAplus files between
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches
during this period, either directly appended to a CAS Registry Number
or by qualifying an L-number with /P, may have yielded incomplete results.
As of 1/23/02, the situation has been resolved. Also, note that searches
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAplus files
incorporating CAS Registry Numbers with the P indicator between 12/27/01
and 1/23/02, are encouraged to re-run these strategies. Contact the
CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,
worldwide, or send an e-mail to help@cas.org for further assistance or to
receive a credit for any duplicate searches.

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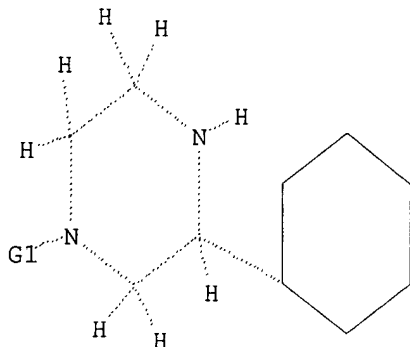
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L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 Me, Et, n-Pr, i-Pr, n-Bu, i-Bu, s-Bu, t-Bu

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 12:50:02 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 465 TO ITERATE

100.0% PROCESSED 465 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.02

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 8007 TO 10593
PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 12:50:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 10180 TO ITERATE

100.0% PROCESSED 10180 ITERATIONS 13 ANSWERS
SEARCH TIME: 00.00.05

L3 13 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 140.66 140.87

FILE 'CAPLUS' ENTERED AT 12:50:36 ON 16 APR 2002
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FILE COVERS 1907 - 16 Apr 2002 VOL 136 ISS 16
FILE LAST UPDATED: 14 Apr 2002 (20020414/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

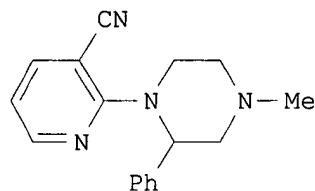
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L4 12 L3

=> d l4 1-12 bib abs hitstr

L4 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 2001:265372 CAPLUS
 DN 134:280862
 TI Process for the preparation of a piperazine derivative
 IN Maeda, Chiharu; Iishi, Eiichi; Wang, Weigi; Imamiya, Yoshiyuki
 PA Sumika Fine Chemicals Co., Ltd., Japan
 SO PCT Int. Appl., 31 pp.
 CODEN: PIXXD2

DT Patent
 LA Japanese
 FAN.CNT 2

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PRAI	JP 1999-280378	A	19990930		
	WO 2000-JP5432	W	20000814		
	WO 2000-JP6650	W	20000927		
OS	CASREACT 134:280862				
GI					



AB A process for the prepn. of a piperazine deriv., namely 2-(4-methyl-3-phenylpiperazin-1-yl)-3-cyanopyridine (I), comprises reacting 1-methyl-3-phenylpiperazine with 2-chloro-3-cyanopyridine in the presence of a base and an alkali metal halide in an aprotic polar org. solvent. This piperazine deriv. I and its oxalate are useful as intermediates for the prepn. of mirtazapine. Thus, 11.4 kg N-methylethanolamine was added dropwise to a soln. of 20 kg styrene oxide in 38 kg DMF at .apprx.80.degree., stirred at .apprx.80.degree. for 3 h, and cooled to room temp. to give a DMF soln. of N-(2-hydroxyethyl)-N-

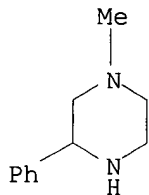
methyl-2-hydroxy-2-phenylethylamine which was added dropwise to a soln. of 45 kg SOCl₂ in 67.4 kg toluene at 0-25.degree., stirred at 45-55.degree. for 2 h, cooled at 0-25.degree., treated dropwise with 95 kg H₂O and then with 30 wt.% aq. KOH at 0-25.degree., and left to stand for phase sepn. The org. and aq. phase were sepd. and the aq. phase was extd. with 55 kg toluene, followed by combining the ext. and the org. phase, drying over 4.8 kg MgSO₄, treating with 4.8 kg activated clay and filtration, and washing with 19.9 kg PhMe to give a toluene soln. of N-(2-chloroethyl)-N-methyl-2-chloro-2-phenylethylamine (II). To the toluene soln. was introduced 5.5 kg HCl(g) at 10-35.degree. and stirred at 20-25.degree. for 2 h and the pptd. crystals were filtered and washed with 69 kg toluene to give 30 kg II.HCl. EtOAc (100 mL), 460 mg Bu₄NBr, and 20.1 g II.HCl were added to 132 g 28% aq. NH₃ at room temp. and stirred at 40-45.degree. for 3 h, followed by sepg. the org. layer and extg. the aq. layer with EtOAc (2 .times. 30 mL) and the combined org. layer evapd. in vacuo to give 53.8% 1-methyl-3-phenylpiperazine (III) (7.1 g). III 5.51, 2-chloro-3-cyanopyridine 4.47, Et₃N 4.1, and KI 5.20 g were added to 11 mL DMF and stirred at 125-130.degree. for 24 h, followed by removing Et₃N and DMF under reduced pressure, adding 20 mL H₂O and 25 mL EtOAc to the residue, adjusting pH at 8-9 with 10% NaOH, sepg. the org. phase, and extg. the aq. layer with EtOAc (3 .times. 30 mL), washing the combined the org. layer with 5% NaHCO₃, drying and concn., and crystn. from petroleum ether 36% I (3.14 g, 97.1% purity).

IT **5271-27-2P**

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of (methylphenylpiperazinyl)cyanopyridine as intermediate for mirtazapine)

RN 5271-27-2 CAPLUS

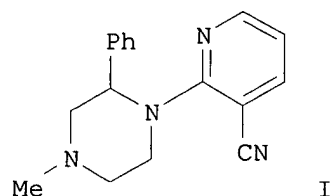
CN Piperazine, 1-methyl-3-phenyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 2001:247305 CAPLUS
 DN 134:266325
 TI Process for the preparation of a piperazine derivative
 IN Maeda, Chiharu; Iishi, Eiichi; Wang, Weigi; Imamiya, Yoshiyuki
 PA Sumika Fine Chemicals Co., Ltd., Japan
 SO PCT Int. Appl., 31 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 2

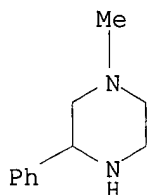
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	WO 2001025185	A1	20010412	WO 2000-JP5432	20000814
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	EP 1136470	A1	20010926	EP 2000-962874	20000927
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PRAI	JP 1999-280378	A	19990930		
	WO 2000-JP5432	W	20000814		
	WO 2000-JP6650	W	20000927		
OS	CASREACT 134:266325				
GI					



AB A process for the prepn. of a piperazine deriv. represented by formula (I), namely 2-(4-methyl-2-phenylpiperazin-1-yl)-3-cyanopyridine, comprises reacting 1-methyl-3-phenylpiperazine (II) with 2-chloro-3-cyanopyridine (III) in the presence of a base and an alkali metal halide in an aprotic polar org. solvent. This piperazine deriv. and its oxalate are useful as intermediates for the prepn. of mirtazapine. Thus, styrene oxide underwent addn. reaction with N-methylethanolamine in DMF at 80.degree. for 3 h to give a soln. of N-(2-hydroxyethyl)-N-methyl-2-hydroxy-2-phenylethylamine which was treated dropwise with a soln. of SOCl₂ in

toluene at 0-25.degree., stirred at 45-55.degree. for 2 h, cooled to .ltoreq.25.degree., and treated dropwise with water and then with 30 wt.% NaOH at 20-25.degree. to give, after workup, a toluene soln. of N-(2-chloroethyl)-N-methyl-2-chloro-2-phenylethylamine. The latter soln. was treated HCl(g) at 10-35.degree. and stirred at 20-25.degree. for 2 h to give N-(2-chloroethyl)-N-methyl-2-chloro-2-phenylethylamine hydrochloride which was stirred with a mixt. of Bu4NBr, aq. NH3, toluene, and DMF at 40-44.degree. for 2 h, treated with 25 wt.% NaOH, and stirred at 45-47.degree. for 2 h to give, after workup, 58.7% II. A mixt. of II, III, KI, and Et3N in DMF was stirred at 115-120.degree. for 10 h and then at 135.degree. to distill Et3N, and the stirring was continued at 135-137.degree. for 5 h to give, after workup and salt formation with oxalic acid, 61.9% I.oxalic acid.

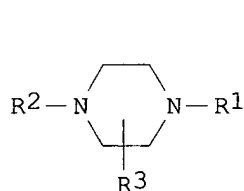
IT **5271-27-2P**, Piperazine, 1-methyl-3-phenyl-
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of (methylphenylpiperazinyl)cyanopyridine by chlorination of N-(hydroxyethyl)-N-methylhydroxyphenylethylamine and cyclization to methylphenylpiperazine followed by condensation with chlorocyanopyridine)
 RN 5271-27-2 CAPLUS
 CN Piperazine, 1-methyl-3-phenyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



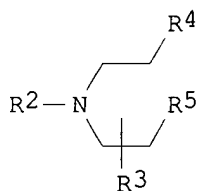
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 2000:756684 CAPLUS
 DN 133:321901
 TI Novel synthesis of piperazine ring
 IN Dolitzky, Ben-Zion
 PA Teva Pharmaceutical Industries Ltd., Israel; Teva Pharmaceuticals Usa, Inc.
 SO PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000063185	A1	20001026	WO 2000-US9418	20000407
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	US 6339156	B1	20020115	US 2000-545011	20000407
	EP 1178972	A1	20020213	EP 2000-921933	20000407
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
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PRAI	US 1999-130048P	P	19990419		
	US 2000-545011	XX	20000407		
	WO 2000-US9418	W	20000407		
OS	CASREACT 133:321901; MARPAT 133:321901				
GI					



I



II

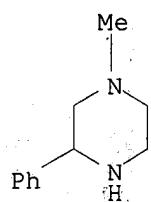
AB A novel process for prepg. the compds I [R1 = (un)substituted alkyl, alkoxy, aryl, aryloxy, arylalkoxy; R2 = (un)substituted alkyl, alkoxy, aryl, aryloxy, arylalkoxy, tosyl, formyl, acetyl, amino; R3 = (un)substituted alkyl, alkoxy, aryl, aryloxy, arylalkoxy], comprising the step of reacting the compd. II [R4, R5 = F, Cl, Br, I] with H2NR1, is disclosed. The compds. I are useful as intermediates in the synthesis of the antidepressant mirtazapine and other tetracyclic compds.

IT **5271-27-2P**

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (novel synthesis of piperazine ring)

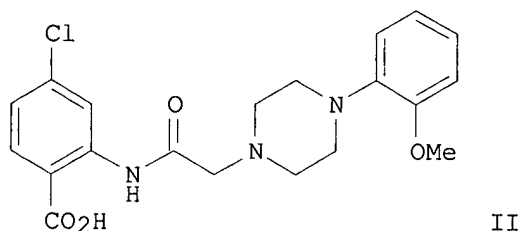
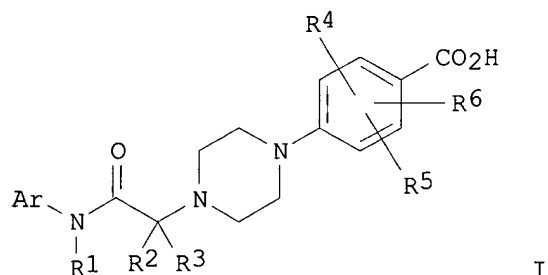
RN 5271-27-2 CAPLUS

CN Piperazine, 1-methyl-3-phenyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1999:404960 CAPLUS
 DN 131:58851
 TI Piperazine derivatives useful as hypoglycemic agents
 IN Bierer, Donald E.; Moinet, Gerard G.; Botton, Gerard; Dubenko, Larisa;
 Patereau, Gerard; Doare, Liliane; Kergoat, Micheline; Mesangeau, Didier;
 Lu, Qing
 PA Shaman Pharmaceuticals, Inc., USA; Lyonnaise Industrielle Pharmaceutique
 (LIPHA)
 SO PCT Int. Appl., 420 pp.
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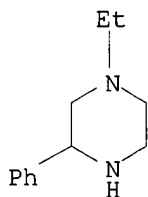
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9931096	A1	19990624	WO 1998-US26851	19981218
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9919240	A1	19990705	AU 1999-19240	19981218
PRAI	US 1997-993320		19971218		
	WO 1998-US26851		19981218		
OS	MARPAT 131:58851				
GI					



AB A variety of piperazine derivs. useful as antihyperglycemic agents,
 pharmaceutical compns. comprising them, and methods for their use are
 described. For example, compds. I are disclosed [wherein Ar = certain
 mono- and polycyclic aryl and heteroaryl groups; R1, R2, R3 = H, alkyl,
 alkoxyalkyl, cycloalkyl, aryl, heteroaryl, arylalkoxy, aryloxy, etc.; or

ArNR1 = indolyl, quinolyl, indolyl, or tetrahydroquinolyl; R4, R5, R6 = H, cycloalkyl, alkyl, alkoxy, halo, CF3, aryl, aryloxy, cyano, CO2H, OH, NH2, NO2, etc.]. The compds. are useful for the treatment of insulin-dependent diabetes mellitus (IDDM or Type I) and non-insulin dependent diabetes mellitus (NIDDM or Type II). For instance, coupling of 4-chloro-2-(chloroacetamido)benzoic acid with 1-(2-methoxyphenyl)piperazine in DMF in the presence of Et3N gave title compd. II. Compds. I gave significant redns. of blood glucose in a variety of animal diabetes models.

IT **5271-30-7**, 1-(3-Ethylphenyl)piperazine
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant; prepn. of piperazine derivs. with hypoglycemic activity)
 RN 5271-30-7 CAPLUS
 CN Piperazine, 1-ethyl-3-phenyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2002 ACS

AN 1998:599989 CAPLUS

DN 129:286005

TI Phenylpropenones and acyl-CoA:cholesterol transferase inhibitors containing them

IN Sawada, Harushi; Aiyama, Norio; Hatano, Hiroshi; Ooishi, Kenji; Yoshida, Yasuhito; Wada, Yasue; Urakawa, Takako; Mori, Chie; Oowaki, Makoto; Watanabe, Tsuneichi; Yokokura, Teruo

PA Yakult Honsha Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 42 pp.

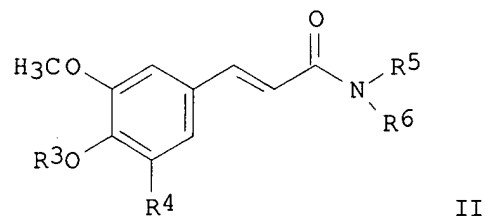
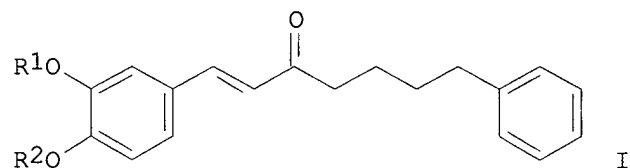
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10245357	A2	19980914	JP 1997-47760	19970303
	WO 9839280	A1	19980911	WO 1998-JP867	19980303
	W:	AU, BR, CA, CN, KR, NO, US, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE			
	AU 9861193	A1	19980922	AU 1998-61193	19980303
	AU 733006	B2	20010503		
	EP 974573	A1	20000126	EP 1998-905736	19980303
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
PRAI	JP 1997-47760	A	19970303		
	WO 1998-JP867	W	19980303		
OS	MARPAT 129:286005				
GI					



AB Title inhibitors, useful as hypocholesteremics, fatty liver inhibitors, and antiarteriosclerotics, contain phenylpropenones I or II [R1-R3 = H, Ph, aralkyl, (un)satd. linear or branched hydrocarbyl; R4 = H, halo, lower (halo)alkyl, lower alkoxy, Ph, aralkyl, NO2; R5 = H; R6 = (substituted) Ph, (substituted) aralkyl, (substituted) aralkylpiperidino, (substituted) anilinocarbonylmethyl; R5R6 may form piperazine ring].
N-[4-(3,4-dimethylphenyl)-1,4-diazacyclohexyl]-(2E)-3-(3,5-dimethoxy-4-hydroxyphenyl)-2-propenamide (3.00 g) was treated with NaH followed by 1.62 g 1-bromohexane in DMF at room temp. for 7 days to give 1.18 g N-[4-(3,4-dimethylphenyl)-1,4-diazacyclohexyl]-(2E)-3-(3,5-dimethoxy-4-hexyloxyphenyl)-2-propenamide, which in vitro inhibited ACAT-mediated

cholesterol esterification with IC50 of 54 nM. Formulation examples are given.

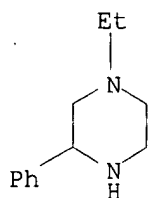
IT **5271-30-7**, 1-(3-Ethylphenyl)piperazine

RL: RCT (Reactant)

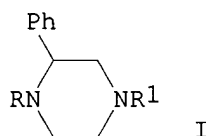
(prepn. of phenylpropenones as acyl-CoA:cholesterol transferase inhibitors)

RN 5271-30-7 CAPLUS

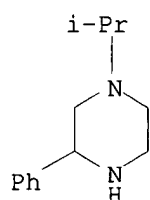
CN Piperazine, 1-ethyl-3-phenyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



L4 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1994:217550 CAPLUS
 DN 120:217550
 TI Synthesis of 1-alkyl-2-(or 3-)phenylpiperazines
 AU Tkaczynski, Tadeusz; Winiarski, Zdzislaw
 CS Dep. Chem. Technol. Pharm. Prod., Sch. Med., Lublin, 20081, Pol.
 SO Acta Pol. Pharm. (1992), 49(3), 53-4
 CODEN: APPHAX; ISSN: 0001-6837
 DT Journal
 LA Polish
 OS CASREACT 120:217550
 GI

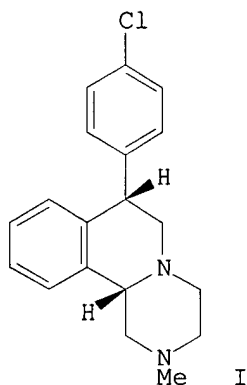


AB Reducing 2-phenyl-1-methylpiperazin-5-one with LiAlH₄ gave 94%
 2-phenyl-1-methylpiperazine (I; R = Me, R₁ = H), which was also prepd.
 (75% yield) by hydrogenolysis of 4-benzyl-1-methyl-2-phenylpiperazine at 8
 atm over Pd/C. The latter method was also used to prep. I (R = H, R₁ =
 Me₂CH) in 62% yield. I were characterized as their HCl salts.
 IT **115238-00-1P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 115238-00-1 CAPLUS
 CN Piperazine, 1-(1-methylethyl)-3-phenyl-, dihydrochloride (9CI) (CA INDEX
 NAME)

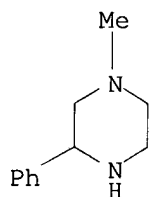


2 HCl

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1989:477964 CAPLUS
 DN 111:77964
 TI New atypical antidepressants: an efficient process for preparing
 cis-1,3,4,6,7,11b-hexahydro-2-methyl-7-aryl-2H-pyrazino[2,1-
 a]isoquinolines
 AU Schmiesing, Richard J.; Matz, James R.
 CS Pharm. Div., Pennwalt Corp., Rochester, NY, 14603, USA
 SO Heterocycles (1989), 29(2), 359-63
 CODEN: HTCYAM; ISSN: 0385-5414
 DT Journal
 LA English
 OS CASREACT 111:77964
 GI



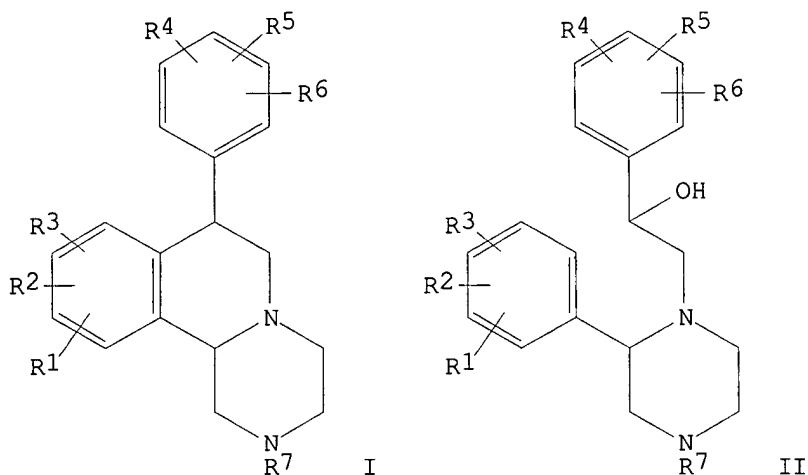
AB Pyrazinoisoquinoline deriv. I was prepd. by a multistep procedure starting
 from 3-phenyl-2-piperazinone.
 IT **118654-15-2P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and acylation of, with chlorophenacyl bromide)
 RN 118654-15-2 CAPLUS
 CN Piperazine, 1-methyl-3-phenyl-, dihydrochloride (9CI) (CA INDEX NAME)



2 HCl

L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1989:75567 CAPLUS
 DN 110:75567
 TI Processes for the preparation of trans-1,3,4,6,7,11b-hexahydro-7-aryl-2H-pyrazino[2,1-a]isoquinolines as antidepressants, antihistaminics, and cholinergics
 IN Schmiesing, Richard J.
 PA Pennwalt Corp., USA
 SO U.S., 9 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

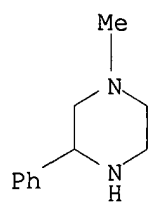
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4772705	A	19880920	US 1985-759022	19850725
	EP 300074	A1	19890125	EP 1987-110639	19870722
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
PRAI	US 1985-759022		19850725		
OS	CASREACT 110:75567; MARPAT 110:75567				
GI					



AB The title compds. I (R1-R3 = H, halo, OH, amino, lower aminoalkyl, CF3, etc.; R4-R6 = H, halo, OH, NO2, amino, lower aminoalkyl, etc.; R7 = H, lower alkyl), useful as antidepressants, antihistaminics, and cholinergics (no data) were prepd. from phenylpiperazines II. N-Alkylation of 3-phenyl-2-piperazinone (prepn. given) with 4-chlorophenacyl bromide, followed by redn., cyclization in H2SO4, and workup, gave trans-1,3,4,6,7,11b-hexahydro-7-(4-chlorophenyl)-2H-pyrazino[2,1-a]isoquinoline-2HCl.

IT **118654-15-2P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and reaction of, in prepn. of antidepressant, antihistaminic, and cholinergic)

RN 118654-15-2 CAPLUS
 CN Piperazine, 1-methyl-3-phenyl-, dihydrochloride (9CI) (CA INDEX NAME)

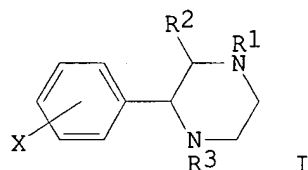


2 HCl



L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1988:437834 CAPLUS
 DN 109:37834
 TI Preparation of phenylpiperazines as antidepressants and sedatives
 IN Lafon, Louis
 PA Laboratoire L. Lafon, Fr.
 SO Fr. Demande, 33 pp.
 CODEN: FRXXBL
 DT Patent
 LA French
 FAN.CNT 1

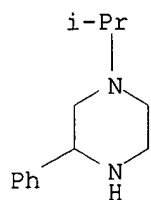
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2585702	A1	19870206	FR 1985-11684	19850731
	FR 2585702	B1	19890303		
	EP 211746	A1	19870225	EP 1986-401644	19860723
	EP 211746	B1	19900523		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	AT 53026	E	19900615	AT 1986-401644	19860723
	DK 8603602	A	19870201	DK 1986-3602	19860729
	DK 165876	B	19930201		
	DK 165876	C	19930621		
	AU 8660691	A1	19870205	AU 1986-60691	19860730
	AU 580179	B2	19890105		
	ZA 8605685	A	19870325	ZA 1986-5685	19860730
	JP 62029576	A2	19870207	JP 1986-181806	19860731
	JP 07030047	B4	19950405		
	CA 1263392	A1	19891128	CA 1986-515056	19860731
	US 4912110	A	19900327	US 1988-283736	19881213
PRAI	FR 1985-11684		19850731		
	EP 1986-401644		19860723		
	US 1986-891298		19860731		
OS	CASREACT 109:37834				
GI					



AB The title compds. [I; R1 = H, C1-4 alkyl; R2 = H, Cl, C2 alkyl; R3 = H, C1-4 alkyl; X = H, F, Cl, Br] and their salts, useful as antidepressants and sedatives, are prepd. A mixt. of PhCOCOMe and NH₂CH₂CH₂NH₂ (II) in MeOH was allowed to react for 0.5 h and then cooled in an ice bath, NaBH₄ was added, and the reaction mixt. was allowed to react overnight to give, after treatment with 3N HCl, 36% I (R1 = R3 = X = H, R2 = Me).2HCl (III). III and I (R1 = Et, R2 = R3 = H, X = 2-Cl) showed antidepressant and sedative effects in mice in extensive pharmacol. studies.

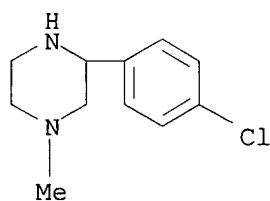
IT **115238-00-1P 115238-04-5P 115238-07-8P**
115238-08-9P 115238-09-0P 115238-10-3P
115238-11-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as antidepressant and sedative)

RN 115238-00-1 CAPLUS
 CN Piperazine, 1-(1-methylethyl)-3-phenyl-, dihydrochloride (9CI) (CA INDEX NAME)



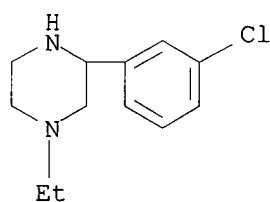
●2 HCl

RN 115238-04-5 CAPLUS
 CN Piperazine, 3-(4-chlorophenyl)-1-methyl-, dihydrochloride (9CI) (CA INDEX NAME)



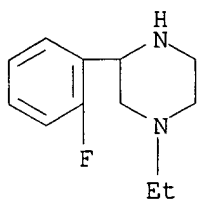
●2 HCl

RN 115238-07-8 CAPLUS
 CN Piperazine, 3-(3-chlorophenyl)-1-ethyl-, dihydrochloride (9CI) (CA INDEX NAME)



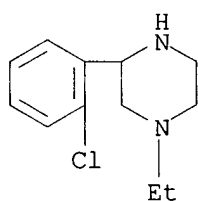
●2 HCl

RN 115238-08-9 CAPLUS
 CN Piperazine, 1-ethyl-3-(2-fluorophenyl)-, dihydrochloride (9CI) (CA INDEX NAME)



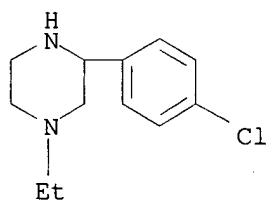
2 HCl

RN 115238-09-0 CAPLUS
 CN Piperazine, 3-(2-chlorophenyl)-1-ethyl-, dihydrochloride (9CI) (CA INDEX NAME)



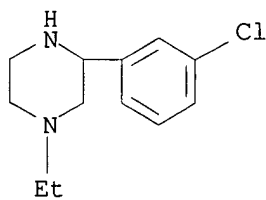
2 HCl

RN 115238-10-3 CAPLUS
 CN Piperazine, 3-(4-chlorophenyl)-1-ethyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

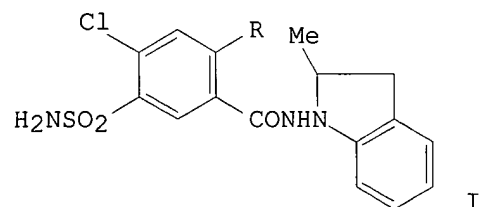
RN 115238-11-4 CAPLUS
 CN Piperazine, 3-(3-chlorophenyl)-1-ethyl- (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1983:558248 CAPLUS
 DN 99:158248
 TI Sulfamoylbenzoic acid derivatives
 PA Mitsui Toatsu Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 58118567	A2	19830714	JP 1982-617	19820107
	JP 03060820	B4	19910917		
OS	CASREACT 99:158248				
GI					



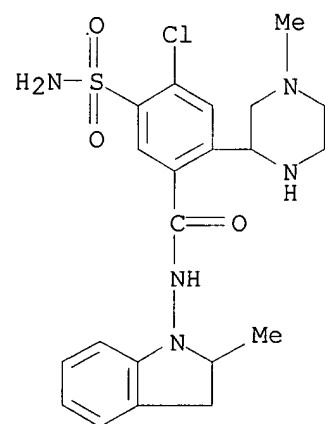
AB The title compds. [I, R = (substituted) piperidinyl, morpholinyl, piperazinyl] were prepd. by condensation of I (R = Cl) (II) with the appropriate heterocycles. Thus, heating 2 g II with 15 mL morpholine at 70.degree. for 1.5 h gave 1.4 g I (R = 2-morpholinyl). I at 30 mg/kg/day decreased systolic blood pressure in rat by 6-25% in 5 days.

IT **87384-92-7P**

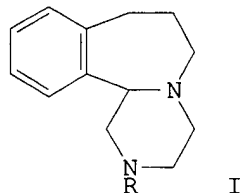
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (prepn. and antihypertensive activity of)

RN 87384-92-7 CAPLUS

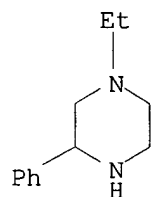
CN Benzamide, 5-(aminosulfonyl)-4-chloro-N-(2,3-dihydro-2-methyl-1H-indol-1-yl)-2-(4-methyl-2-piperazinyl)- (9CI) (CA INDEX NAME)



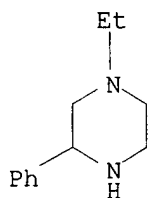
L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1977:453214 CAPLUS
 DN 87:53214
 TI Agents acting on the central nervous system: Part XXV. 2-Substituted
 1,2,3,4,6,7,8,12b-octahydropyrazino[2,1-a][2]benzazepines
 AU Dixit, V. M.; Khanna, J. M.; Anand, Nitya
 CS Med. Chem. Div., Cent. Drug Res. Inst., Lucknow, India
 SO Indian J. Chem., Sect. B (1976), 14B(11), 874-8
 CODEN: IJSBDB
 DT Journal
 LA English
 GI



AB 3-Oxo-2-phenylpiperazine was treated with $\text{BrCH}_2\text{CH}_2\text{COCl}$ and the
 1-(3-bromopropionyl)-3-oxo-2-phenylpiperazine cyclized with AlCl_3 followed
 by LiAlH_4 redn. to give the pyrazinobenzazepine I ($\text{R} = \text{H}$), which was
 alkylated to give I [$\text{R} = \text{PhCH}_2\text{CH}_2$, $\text{PhCH}(\text{OH})\text{CH}_2$, 4-pyridylethyl,
 $p\text{-FC}_6\text{H}_4\text{CO}(\text{CH}_2)_3$, CH_2CN , $\text{MeCO}(\text{CH}_2)_2$, 4,5-dihydro-2-imidazolylmethyl]. I (R
 $= \text{H}$) had trans stereochem.
 IT **5271-30-7P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and reaction with methyl acrylate)
 RN 5271-30-7 CAPLUS
 CN Piperazine, 1-ethyl-3-phenyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2002 ACS
AN 1976:4904 CAPLUS
DN 84:4904
TI N-Alkylation of secondary amines with esters and lithium alanate (lithium aluminum hydride)
AU Khanna, J. M.; Dixit, V. M.; Anand, Nitya
CS Med. Chem. Div., Cent. Drug Res. Inst., Lucknow, India
SO Synthesis (1975), (9), 607-8
CODEN: SYNTBF
DT Journal
LA English
AB 1-Phenyl-, 2-phenyl-, 1-methylpiperazine, piperidine, and PhCH₂NHMe were N-alkylated by reaction with RCO₂Et (R = H, Me, Et) and LiAlH₄ in THF or ether. Thus, reaction of 1-phenylpiperazine with HCO₂Et and LiAlH₄ gave 4-methyl-1-phenylpiperazine in 90% yield. 2-Phenylpiperazine with AcOEt and LiAlH₄ gave 80% 4-ethyl-2-phenylpiperazine. A mechanism, involving initial carboxamide formation and its LiAlH₄ redn. to the tertiary amine, was suggested.
IT **5271-30-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 5271-30-7 CAPLUS
CN Piperazine, 1-ethyl-3-phenyl- (7CI, 8CI, 9CI) (CA INDEX NAME)




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ISTD ----- STD, indented with text labels

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FHITSTR - First HIT RN, its CA index name and its structure diagram
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BIB ----- AN, TI, AU, PA, DT, PI
CAN ----- List of CA abstract numbers, no L-number headers
CBIB ----- AN, TI, AU, PA, PI
DALL ----- ALL, delimited (end of each field identified)
IND ----- Indexing data
MAX ----- Same as ALL
SAM ----- TI, IT
SCAN ----- TI, IT (random display, no answer numbers;
SCAN must be entered on the same line as the DISPLAY,
e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB

IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels
ISTD ----- STD, indented with text labels

HIT ----- Fields containing hit terms
HITIND -- IT
HITRN --- HIT RN
HITSTR -- HIT RN, its CA index name and its structure diagram
FHITSTR - First HIT RN, its CA index name and its structure diagram
OCC ----- Number of occurrence of hit term and field in which it occurs

Index Terms (IT) are CAS Registry Numbers; Accession Numbers (AN) CA References.

Index Terms in CAOLD include only Registry Numbers; no subject terms are available. The same formats (except SAMPLE) may be used with the DISPLAY ACC command to display the record for a specified CAOLD Accession Number.

PAGE ---- Page Image of original Chemical Abstracts issue containing the abstract of the answer.
PAGE.PREV and PAGE.NEXT will return the image of the page before or after the current answer.
ENTER DISPLAY FORMAT (ALL):ibib hitstr

L5 ANSWER 1 OF 1 CAOLD COPYRIGHT 2002 ACS

ACCESSION NUMBER: CA64:11209a CAOLD

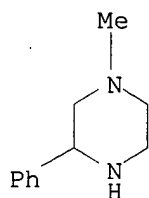
TITLE: synthesis of pyridazine derivs. - (V) syntheses of
10H-pyridazino[3,2-b]quinazolin- 10-one and its derivs. (2)

AUTHOR NAME: Yanai, Mitsuji; Kinoshita, T.; Nakashima, S.

IT 5271-27-2 5271-30-7 5368-29-6

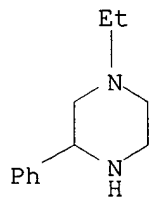
RN 5271-27-2 CAOLD

CN Piperazine, 1-methyl-3-phenyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



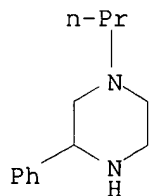
RN 5271-30-7 CAOLD

CN Piperazine, 1-ethyl-3-phenyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 5368-29-6 CAOLD

CN Piperazine, 3-phenyl-1-propyl- (7CI, 8CI) (CA INDEX NAME)



=> d 15 can cbib
CA64:11209a

L5 ANSWER 1 OF 1 CAOLD COPYRIGHT 2002 ACS

CA64:11209a synthesis of pyridazine derivs. - (V) syntheses of
10H-pyridazino[3,2-b]quinazolin- 10-one and its derivs. (2). Yanai,
Mitsuji; Kinoshita, T.; Nakashima, S.

=> d 15 all

L5 ANSWER 1 OF 1 CAOLD COPYRIGHT 2002 ACS
AN CA64:11209a CAOLD
TI synthesis of pyridazine derivs. - (V) syntheses of 10H-pyridazino[3,2-
b]quinazolin- 10-one and its derivs. (2)
AU Yanai, Mitsuji; Kinoshita, T.; Nakashima, S.
IT **5271-27-2** 5271-28-3 5271-29-4 **5271-30-7**
5271-31-8 5271-32-9 5368-20-7 5368-21-8 5368-22-9 5368-23-0
5368-24-1 5368-25-2 5368-28-5 **5368-29-6** 5368-30-9
5368-31-0 5368-32-1 5368-33-2 5368-34-3 5368-37-6 5368-38-7
5584-96-3

=> D HIS

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ACT BERNPCT/A

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FILE 'CAPLUS' ENTERED AT 08:11:02 ON 15 JUN 2000
L3 2469 S L2
L4 1353 S L2/P
L5 364 S L4 AND US/PC

FILE 'REGISTRY' ENTERED AT 08:16:39 ON 15 JUN 2000
L6 STR
L7 STR L1
L8 STR L1
L9 50 S L8
L10 STR L8
L11 50 S L10
L12 2679 S L10 FUL
L13 STR L10
L14 STR L10
L15 50 S L14
L16 12609 S L14 FUL
SAV TEMP L16 BERNPCTB/A

FILE 'CAPLUS' ENTERED AT 08:35:43 ON 15 JUN 2000

FILE 'HCAPLUS' ENTERED AT 08:37:07 ON 15 JUN 2000
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L18 1412 S L16(L) REACT?/RL
L19 18 S L17 AND L18
SELECT RN L19 1-18

FILE 'REGISTRY' ENTERED AT 08:38:23 ON 15 JUN 2000

FILE 'HCAPLUS' ENTERED AT 08:38:26 ON 15 JUN 2000
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L20 SEL L19 1- RN : 2850 TERMS
SET SMARTSELECT OFF

FILE 'REGISTRY' ENTERED AT 08:38:34 ON 15 JUN 2000
L21 2849 S L20
L22 2626 S L21 AND N/ELS

FILE 'HCAPLUS' ENTERED AT 08:39:53 ON 15 JUN 2000

FILE 'CAOLD' ENTERED AT 08:42:24 ON 15 JUN 2000

FILE 'CASREACT' ENTERED AT 08:49:53 ON 15 JUN 2000
L23 STR L1
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L25 0 S L24

Searched by John Dantzman 703-308-4488

L26 0 S L24 FUL
 SAV TEMP L26 BERNPCTCX/A

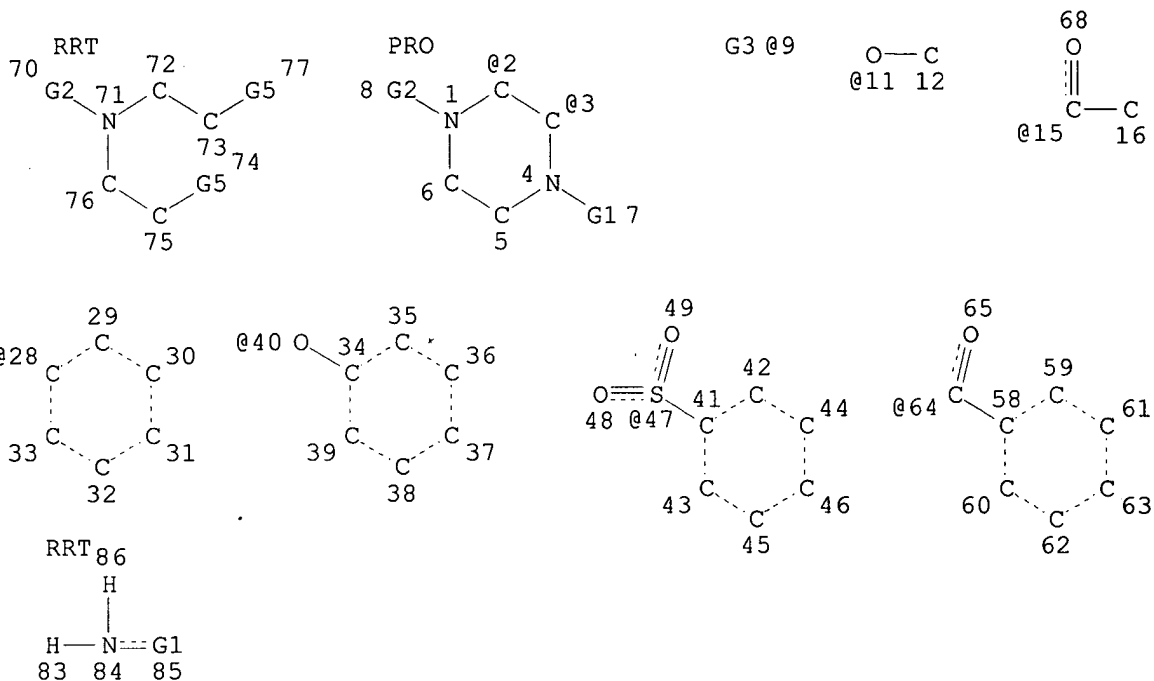
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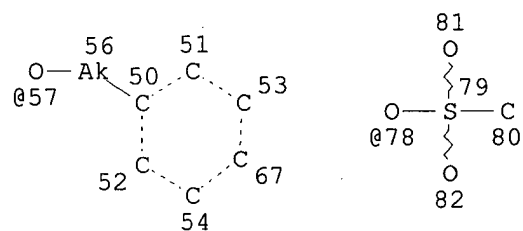
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L27

STR



Page 1-A



Page 2-A

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VAR G2=C/11/28/40/57

VAR G3=C/11/28/40/57

VAR G5=X/78

VPA 9-2/3 U

NODE ATTRIBUTES:

NSPEC IS RC AT 80

CONNECT IS E3 RC AT 1

CONNECT IS E3 RC AT 4

CONNECT IS E3 RC AT 71

DEFAULT MLEVEL IS ATOM

MLEVEL IS CLASS AT 67

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS UNLIMITED AT 67

GRAPH ATTRIBUTES:

Searched by John Dantzman 703-308-4488

RSPEC 4
NUMBER OF NODES IS 69

STEREO ATTRIBUTES: NONE

*****MAPPINGS*****

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4	N	PRO	84	N	RRT
71	N	RRT	1	N	PRO
84	N	RRT	4	N	PRO

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(FILE 'HOME' ENTERED AT 08:00:22 ON 15 JUN 2000)

FILE 'REGISTRY' ENTERED AT 08:02:23 ON 15 JUN 2000
ACT BERNPCT/A

L1 STR
L2 12302 SEA FILE=REGISTRY SSS FUL L1

FILE 'CAPLUS' ENTERED AT 08:11:02 ON 15 JUN 2000
L3 2469 S L2
L4 1353 S L2/P
L5 364 S L4 AND US/PC

FILE 'REGISTRY' ENTERED AT 08:16:39 ON 15 JUN 2000
L6 STR
L7 STR L1
L8 STR L1
L9 50 S L8
L10 STR L8
L11 50 S L10
L12 2679 S L10 FUL
L13 STR L10
L14 STR L10
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L16 12609 S L14 FUL
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SELECT RN L19 1-18

FILE 'REGISTRY' ENTERED AT 08:38:23 ON 15 JUN 2000

FILE 'HCAPLUS' ENTERED AT 08:38:26 ON 15 JUN 2000
SET SMARTSELECT ON
L20 SEL L19 1- RN : 2850 TERMS
SET SMARTSELECT OFF

FILE 'REGISTRY' ENTERED AT 08:38:34 ON 15 JUN 2000
L21 2849 S L20
L22 2626 S L21 AND N/ELS

FILE 'HCAPLUS' ENTERED AT 08:39:53 ON 15 JUN 2000

FILE 'CAOLD' ENTERED AT 08:42:24 ON 15 JUN 2000

FILE 'CASREACT' ENTERED AT 08:49:53 ON 15 JUN 2000
L23 STR L1
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L25 0 S L24

Searched by John Dantzman 703-308-4488

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SAV TEMP L26 BERNPCTCX/A

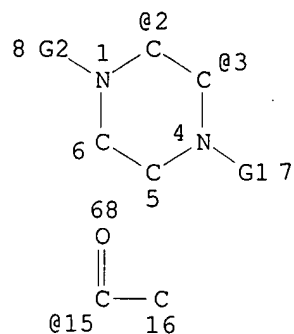
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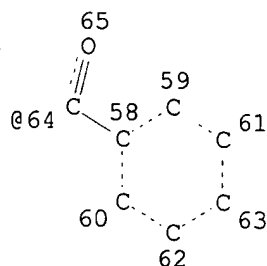
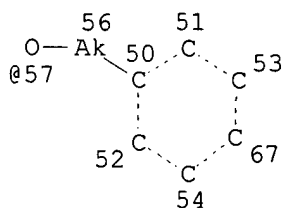
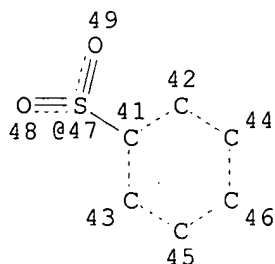
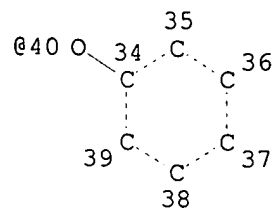
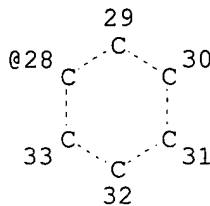
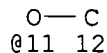
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L1

STR



G3 @9



VAR G1=C/28/57/47/64/CHO/15/N

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VAR G3=C/11/28/40/57

VPA 9-2/3 U

NODE ATTRIBUTES:

CONNECT IS E3 RC AT 1

CONNECT IS E3 RC AT 4

DEFAULT MLEVEL IS ATOM

MLEVEL IS CLASS AT 67

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS UNLIMITED AT 67

GRAPH ATTRIBUTES:

RSPEC 1

NUMBER OF NODES IS 52

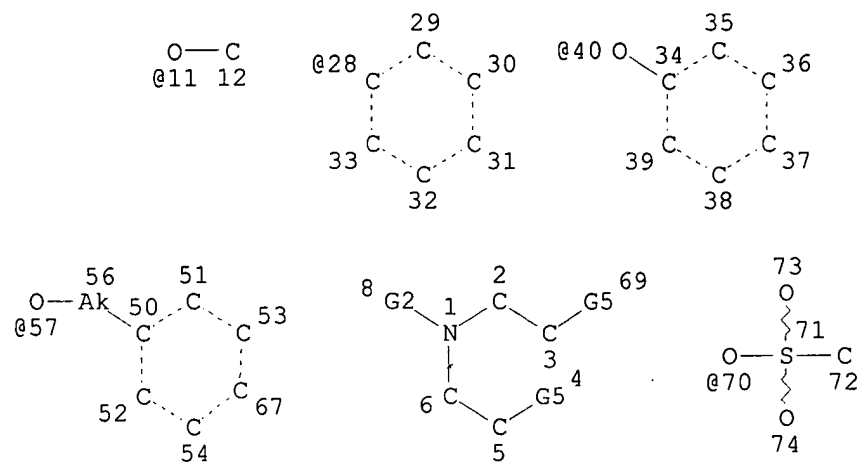
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L2 12302 SEA FILE=REGISTRY SSS FUL L1

=> d que 116

L14

STR



VAR G2=C/11/28/40/57

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NODE ATTRIBUTES:

NSPEC IS RC AT 72

CONNECT IS E3 RC AT 1

DEFAULT MLEVEL IS ATOM

MLEVEL IS CLASS AT 67

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS UNLIMITED AT 67

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 36

STEREO ATTRIBUTES: NONE

L16 12609 SEA FILE=REGISTRY SSS FUL L14

=> d 119 bib abs hitstr

L19 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2000 ACS

AN 1999:791870 HCAPLUS

DN 132:36535

TI Polymer compositions stabilized by a dioxopiperazinyl derivative

IN Zedda, Alessandro; Zagnoni, Graziano; Sala, Massimiliano; Lazzari, Dario; Andrews, Stephen Mark

PA Ciba Specialty Chemicals Holding Inc., Switz.

SO Ger. Offen., 82 pp.

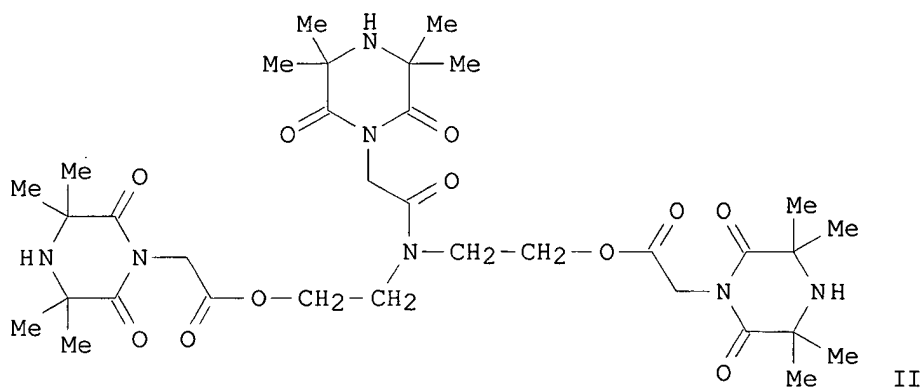
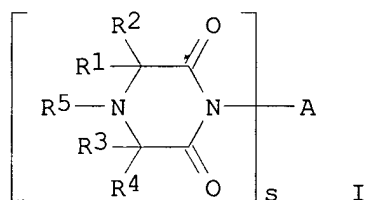
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

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PI	DE 19924984	A1	19991209	DE 1999-19924984	19990531
	NL 1012190	A1	19991203	NL 1999-1012190	19990531
	FR 2779150	A1	19991203	FR 1999-6862	19990601
	JP 2000063742	A2	20000229	JP 1999-153870	19990601
PRAI	EP 1998-810507		19980602		
OS	MARPAT 132:36535				
GI					



AB The title piperazinyl derivs. [I; R1, R2, R3, R4 = C1-4-alkyl; R1R2 or R3R4 form cyclopentyl or cyclohexyl ring; R5 = H, oxyl, OH, CH2CN, C1-18-alkyl or -alkoxy, C5-12-cycloalkoxy, C3-8-alkenyl or alkynyl,

Searched by John Dantzman 703-308-4488

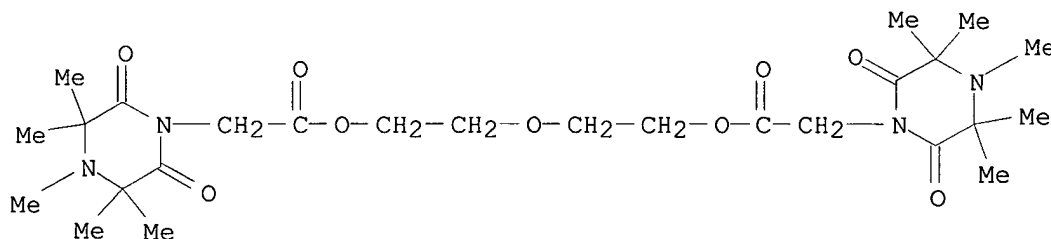
phenylalkyl (optionally ring-substituted), C1-8-alkanoyl or alkanoyloxy, C3-5-alkenoyl, glycidyl, CH₂CH(OH)G; G = H, Me, Ph; A = mono- or polyvalent organocarbyl, including triazine ring-contg. chains with spacer groups for linking to the piperazinyll ring; s = 1-8] are light stabilizers, antioxidants, and/or heat stabilizers for synthetic org. polymers such as polyoxymethylenes, polycarbonate/ABS blends, and acrylic coatings. The stabilizers can be used alone or in combination with other stabilizers. Thus, a gray-pigmented polycarbonate/ABS blend (Cycloy MC 8002) contg. 0.5% II and 1% (2-hydroxyphenyl)benzotriazole deriv. stabilizer showed 0.5, 3.1, 6.2, and 7.2 units color change after accelerated aging for 94.8, 500.5, 999.7, and 1249.0 h. The color change was less than that obsd. for pigmented blends contg. no stabilizer or contg. the benzotriazole stabilizer alone.

IT 252316-16-8P

RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(in prepn. of dioxopiperazinyll derivs. as stabilizers)

RN 252316-16-8 HCAPLUS

CN 1-Piperazineacetic acid, 3,3,4,5,5-pentamethyl-2,6-dioxo-, oxydi-2,1-ethanediyl ester (9CI) (CA INDEX NAME)



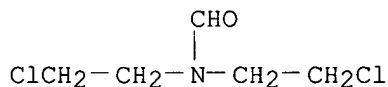
IT 36024-66-5, N,N-Bis(2-chloroethyl)formamide

RL: RCT (Reactant)

(in prepn. of dioxopiperazinyll derivs. as stabilizers)

RN 36024-66-5 HCAPLUS

CN Formamide, N,N-bis(2-chloroethyl)- (6CI, 9CI) (CA INDEX NAME)



IT 252316-15-7P 252316-17-9P

RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

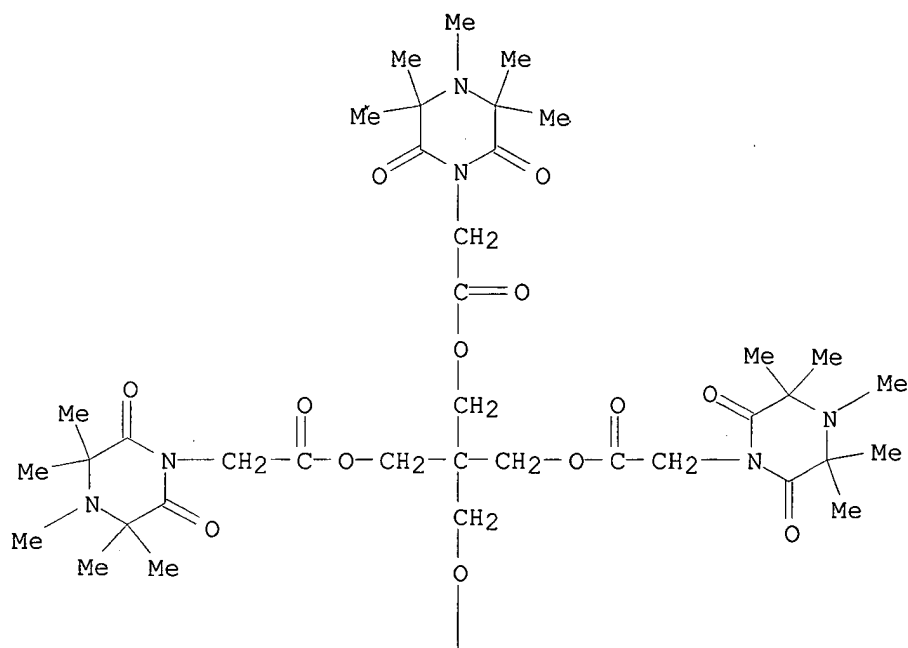
(prepn. of dioxopiperazinyll derivs. as stabilizers for polymers)

RN 252316-15-7 HCAPLUS

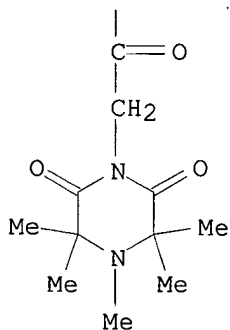
CN 1-Piperazineacetic acid, 3,3,4,5,5-pentamethyl-2,6-dioxo-,

2,2-bis[[(3,3,4,5,5-pentamethyl-2,6-dioxo-1-piperazinyll)acetyl]oxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

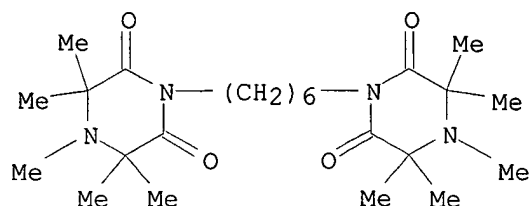
PAGE 1-A



PAGE 2-A



RN 252316-17-9 HCAPLUS
 CN 2,6-Piperazinedione, 1,1'-(1,6-hexanediyl)bis[3,3,4,5,5-pentamethyl-
 (9CI)
 (CA INDEX NAME)

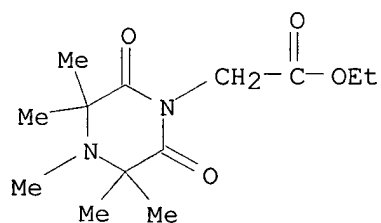


IT 252316-14-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of dioxopiperazinyl derivs. as stabilizers for polymers)

RN 252316-14-6 HCAPLUS

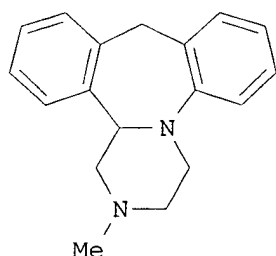
CN 1-Piperazineacetic acid, 3,3,4,5,5-pentamethyl-2,6-dioxo-, ethyl ester
(9CI) (CA INDEX NAME)



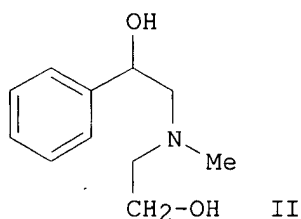
=> d 119 bib abs hitstr 2

L19 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2000 ACS
 AN 1999:304336 HCAPLUS
 DN 130:296698
 TI Preparation of 1,2,3,4,10,14b-hexahydro-2-methyldibenzo[c,f]pyrazino[1,2-a]azepine
 IN Lypacewicz, Maria K.; Poslinska-bucewka, Halina; Smolinska, Jadwiga; Wasiak, Teresa; Sosinska, Danuta; Mostrak, Magdalena; Trzpil, Barbara; Paszkowski, Slawomir
 PA Instytut Farmaceutyczny, Pol.
 SO Pol., 6 pp.
 CODEN: POXXA7
 DT Patent
 LA Polish
 FAN.CNT 1

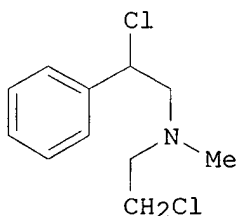
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PI	PL 175287	B1	19981231	PL 1994-303650	19940530
OS	CASREACT 130:296698				
GI					



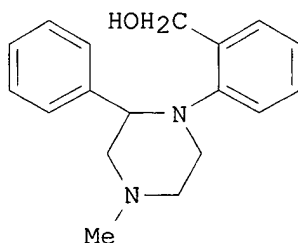
I



II



III



IV

AB The title compd. I, known also as mianserin - antidepressant, was prepd. by reacting styrene oxide with 2-methylaminoethanol followed by treatment of the resulting crude phenylethylamine II with SOCl₂, alkylation of o-aminobenzyl alc. with chloride III, and cyclization of piperazine IV with conc. H₂SO₄.

IT 22270-22-0P 57321-32-1P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic)
 Searched by John Dantzman 703-308-4488

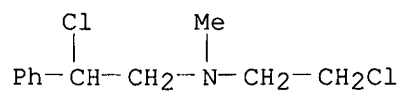
*Similar to
to US '513*

preparation); PREP (Preparation)

(prepn. of 1,2,3,4,10,14b-hexahydro-2-methyldibenzo[c,f]pyrazino[1,2-a]azepine)

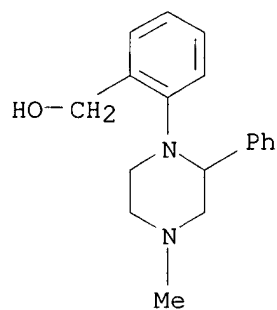
RN 22270-22-0 HCAPLUS

CN Benzenethanamine, .beta.-chloro-N-(2-chloroethyl)-N-methyl- (9CI) (CA INDEX NAME)



RN 57321-32-1 HCAPLUS

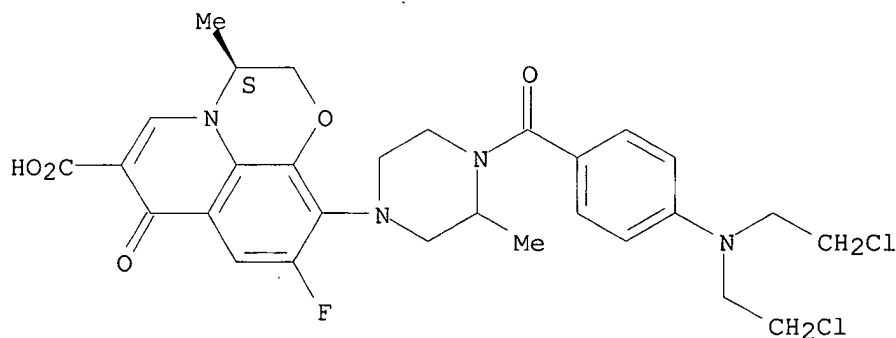
CN Benzenemethanol, 2-(4-methyl-2-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



=> d 119 bib abs hitstr 3

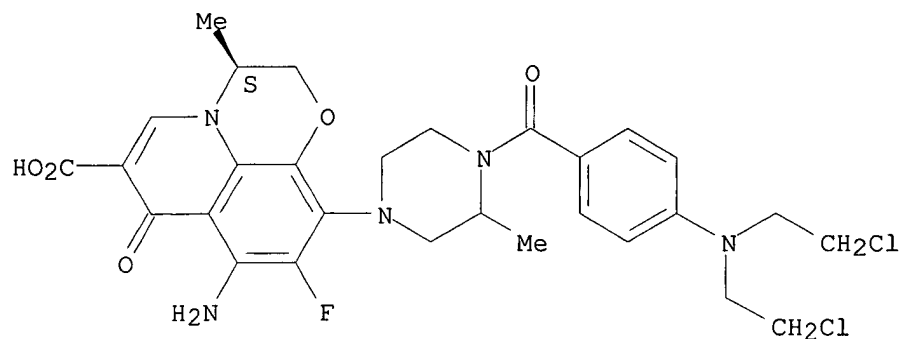
L19 ANSWER 3 OF 18 HCAPLUS COPYRIGHT 2000 ACS
AN 1999:238028 HCAPLUS
DN 131:110880
TI Synthesis and antibacterial and antitumor activity of -(-)-ofloxacin analogs
AU Yang, Yushe; Ji, Ruyun; Chen, Kaixian; Ding, Jian
CS Shanghai Institute of Materia Medica, Shanghai, 200031, Peop. Rep. China
SO Yaoxue Xuebao (1999), 34(2), 119-124
CODEN: YHHPAL; ISSN: 0513-4870
PB Chinese Academy of Medical Sciences, Institute of Materia Media
DT Journal
LA Chinese
AB The quinolone compds. with antibacterial and antitumor activities were synthesized. According to rational drug design principle, a series of novel analogs of (S)-(-)-ofloxacin were prepd., their in vitro antitumor and antibacterial activities were evaluated, and the structure-activity relationship was discussed. Some compds. showed good antitumor and antibacterial activities.
IT 233603-66-2P 233603-67-3P 233603-71-9P
233603-72-0P 233603-78-6P 233603-80-0P
RL: BAC (Biological activity or effector, except adverse); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and structure-activity relationship of quinolone compds. as antibacterial and antitumor agents)
RN 233603-66-2 HCAPLUS
CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid, 10-[4-[4-[bis(2-chloroethyl)amino]benzoyl]-3-methyl-1-piperazinyl]-9-fluoro-2,3-dihydro-3-methyl-7-oxo-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



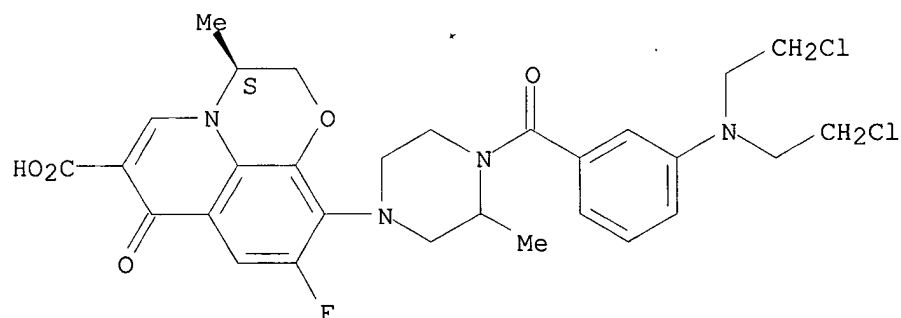
RN 233603-67-3 HCAPLUS
CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid, 8-amino-10-[4-[4-[bis(2-chloroethyl)amino]benzoyl]-3-methyl-1-piperazinyl]-9-fluoro-2,3-dihydro-3-methyl-7-oxo-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



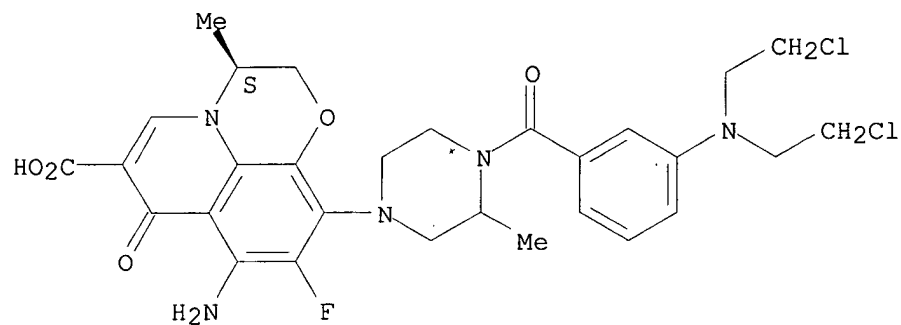
RN 233603-71-9 HCAPLUS
 CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid,
 10-[4-[3-[bis(2-chloroethyl)amino]benzoyl]-3-methyl-1-piperazinyl]-9-
 fluoro-2,3-dihydro-3-methyl-7-oxo-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 233603-72-0 HCAPLUS
 CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid,
 8-amino-10-[4-[3-[bis(2-chloroethyl)amino]benzoyl]-3-methyl-1-piperazinyl]-
 9-fluoro-2,3-dihydro-3-methyl-7-oxo-, (3S)- (9CI) (CA INDEX NAME)

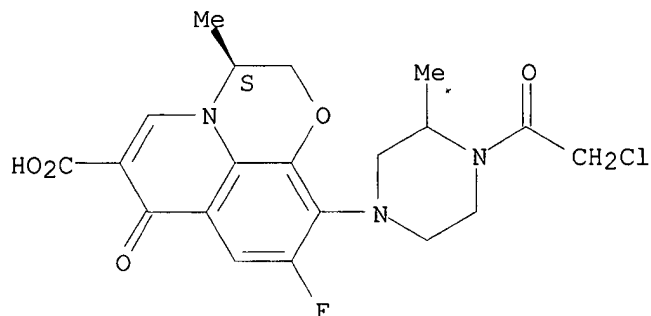
Absolute stereochemistry.



RN 233603-78-6 HCAPLUS
 Searched by John Dantzman 703-308-4488

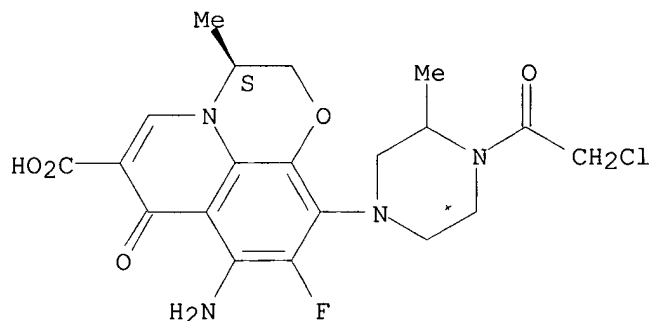
CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid,
10-[4-(chloroacetyl)-3-methyl-1-piperazinyl]-9-fluoro-2,3-dihydro-3-methyl-
7-oxo-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

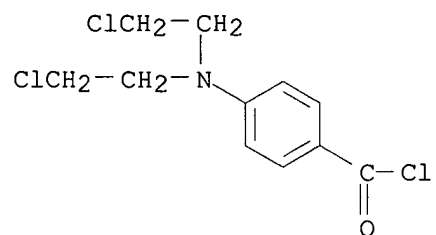


RN 233603-80-0 HCAPLUS
CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid,
8-amino-10-[4-(chloroacetyl)-3-methyl-1-piperazinyl]-9-fluoro-2,3-dihydro-
3-methyl-7-oxo-, (3S)- (9CI) (CA INDEX NAME)

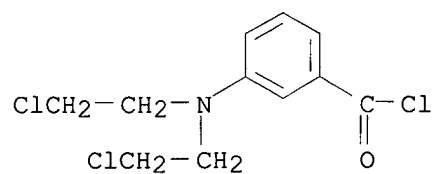
Absolute stereochemistry.



IT 15944-88-4 24813-11-4
RL: RCT (Reactant)
(prepn. and structure-activity relationship of quinolone compds. as
antibacterial and antitumor agents)
RN 15944-88-4 HCAPLUS
CN Benzoyl chloride, 4-[bis(2-chloroethyl)amino]- (9CI) (CA INDEX NAME)



RN 24813-11-4 HCAPLUS
CN Benzoyl chloride, 3-[bis(2-chloroethyl)amino]- (9CI) (CA INDEX NAME)



=> d 119 bib abs hitstr 4

L19 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2000 ACS

AN 1999:213401 HCAPLUS

Correction of: 1997:513626

DN 130:209597

Correction of: 127:205470

TI Preparation of heterocyclylhydroxyalkanamides and related compounds as
HIV

protease inhibitors.

IN Tung, Roger Dennis; Salituro, Francesco Gerald; Deininger, David D.;
Bhisetti, Govinda Rao; Baker, Christopher Todd; Spaltenstein, Andrew;
Kazmierski, Wieslaw M.; Andrews, Clarence Webster III

PA Vertex Pharmaceuticals Incorporated, USA

SO PCT Int. Appl., 336 pp

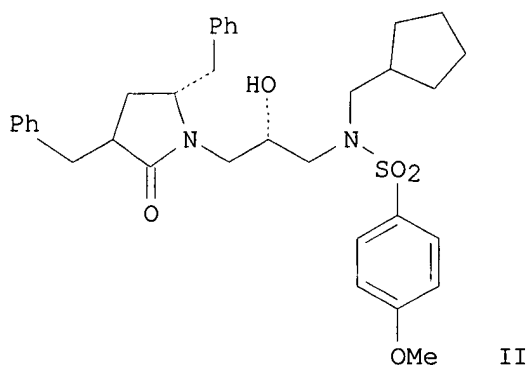
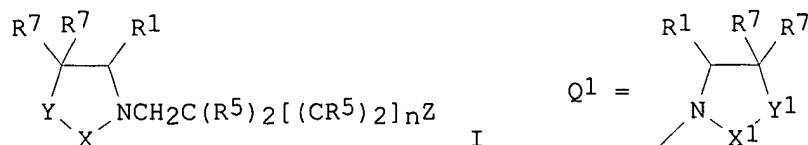
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9727180	A1	19970731	WO 1997-US1610	19970122
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5883252	A	19990316	US 1996-592777	19960126
	US 5945413	A	19990831	US 1996-724563	19960930
	AU 9717580	A1	19970820	AU 1997-17580	19970122
	AU 709239	B2	19990826		
	EP 882022	A1	19981209	EP 1997-904911	19970122
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	BR 9707086	A	19990413	BR 1997-7086	19970122
	JP 2000501111	T2	20000202	JP 1997-527124	19970122
	NO 9803435	A	19980921	NO 1998-3435	19980724
PRAI	US 1996-592777		19960126		
	US 1996-724563		19960930		
	WO 1997-US1610		19970122		
OS	MARPAT 130:209597				
GI					



AB Title compds. [I; Z = (QR1)R1R4, Q1, etc.; ; X, X1 = CO, CO2, SO, SO2; Y, Y1 = [C(R2)2]p, NR2, C:C(R2)2, NR2CH2, etc.; Q = CH, N; R1, R2 = H, (substituted) alkyl, alkenyl, alkynyl, (fused) cycloalkyl, cycloalkenyl, etc.; R4 = (substituted) OR9, XR9, N(R9)2, R6, alkyl, alkenyl, (fused) cycloalkyl, cycloalkenyl, etc.; R5 = H, OH, O, R1; R6 = (substituted) aryl, carbocyclyl, heterocyclyl; R7 = H, OH, O; R9 = H, alkyl, alkenyl, alkynyl, aryl, carbocyclyl, heterocyclyl, aralkyl, carbocyclylalkyl, heterocyclylalkyl; n = 1, 2; r = 0-2], were prepd. Thus, title compd. (II) (prepn. given) inhibited HIV protease with Ki = 1.5 nM.

IT **194596-67-3P**

RL: BAC (Biological activity or effector, except adverse); RCT

(Reactant);

SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

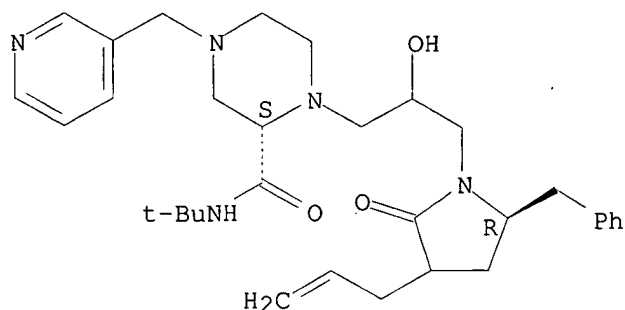
(prepn. of heterocyclylhydroxyalkanamides and related compds. as HIV protease inhibitors)

RN 194596-67-3 HCAPLUS

CN 2-Piperazinecarboxamide,

N-(1,1-dimethylethyl)-1-[2-hydroxy-3-[(5R)-2-oxo-5-(phenylmethyl)-3-(2-propenyl)-1-pyrrolidinyl]propyl]-4-(3-pyridinylmethyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 194596-59-3P 194596-96-8P 194597-00-7P

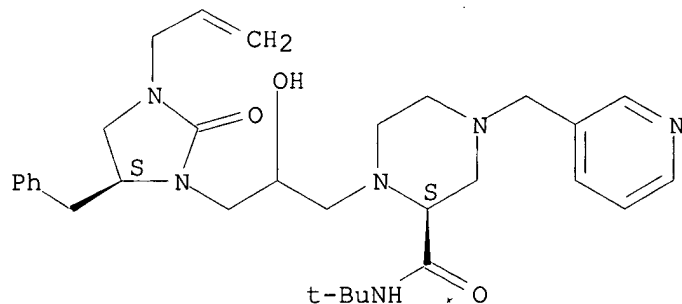
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of heterocyclhydroxyalkanamides and related compds. as HIV protease inhibitors)

RN 194596-59-3 HCAPLUS

CN 2-Piperazinecarboxamide,

N-(1,1-dimethylethyl)-1-[2-hydroxy-3-[(5S)-2-oxo-5-(phenylmethyl)-3-(2-propenyl)-1-imidazolidinyl]propyl]-4-(3-pyridinylmethyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

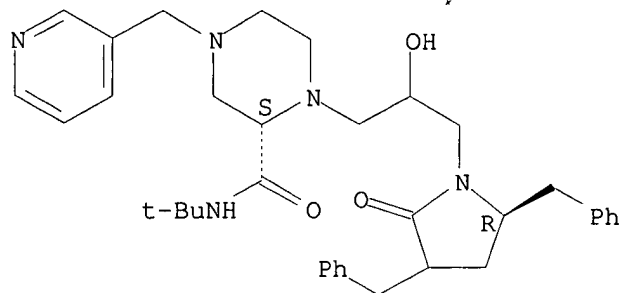


RN 194596-96-8 HCAPLUS

CN 2-Piperazinecarboxamide,

N-(1,1-dimethylethyl)-1-[2-hydroxy-3-[(5R)-2-oxo-3,5-bis(phenylmethyl)-1-pyrrolidinyl]propyl]-4-(3-pyridinylmethyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

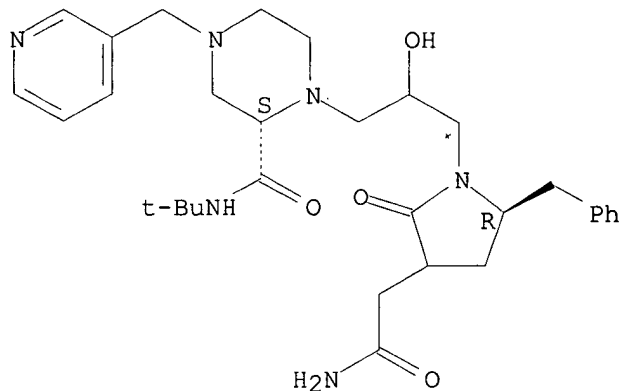


RN 194597-00-7 HCAPLUS

CN 2-Piperazinecarboxamide, 1-[3-[(5R)-3-(2-amino-2-oxoethyl)-2-oxo-5-

(phenylmethyl)-1-pyrrolidinyl]-2-hydroxypropyl]-N-(1,1-dimethylethyl)-4-(3-pyridinylmethyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



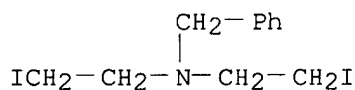
IT 194599-81-0

RL: RCT (Reactant)

(prepn. of heterocyclhydroxyalkanamides and related compds. as HIV protease inhibitors)

RN 194599-81-0 HCAPLUS

CN Benzenemethanamine, N,N-bis(2-iodoethyl)- (9CI) (CA INDEX NAME)



IT 194598-24-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

(prepn. of heterocyclhydroxyalkanamides and related compds. as HIV protease inhibitors)

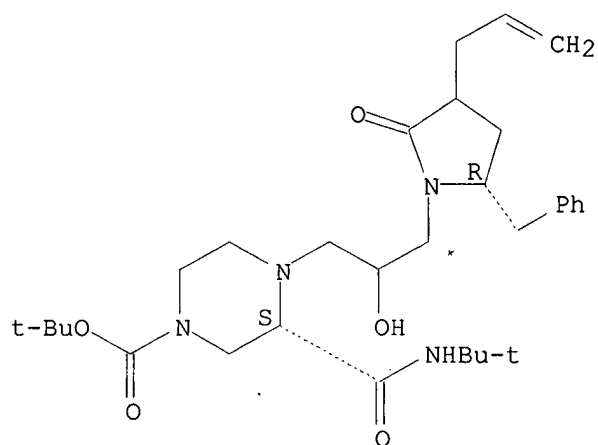
RN 194598-24-8 HCAPLUS

CN 1-Piperazinecarboxylic acid, 3-[[[(1,1-dimethylethyl)amino]carbonyl]-4-[2-

Searched by John Dantzman 703-308-4488

hydroxy-3-[(5R)-2-oxo-5-(phenylmethyl)-3-(2-propenyl)-1-pyrrolidinyl]propyl]-, 1,1-dimethylethyl ester, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d 119 bib abs hitstr 5

L19 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2000 ACS

AN 1999:9823 HCAPLUS

DN 130:81508

TI Heterocyclic substituted oxazolidinones for use as selective antagonists for human α .1A receptors

IN Lagu, Bharat; Dhar, T. G. Murali; Nagarathnam, Dhanapalan; Jeon, Yoon T.; Marzabadi, Mohammad R.; Wong, Wai C.; Gluchowski, Charles; Tian, Dake

PA Synaptic Pharmaceutical Corporation, USA

SO PCT Int. Appl., 258 pp.

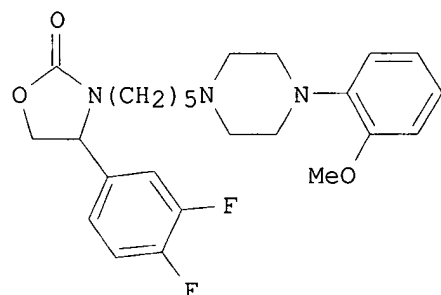
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9857940	A1	19981223	WO 1998-US12668	19980617
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9881498	A1	19990104	AU 1998-81498	19980617
	EP 988295	A1	20000329	EP 1998-931350	19980617
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
PRAI	US 1997-877846		19970618		
	WO 1998-US12668		19980617		
OS	MARPAT 130:81508				
GI					



I

AB This invention is directed to oxazolidinone compds. which are selective antagonists for human α .1A receptors. These compds. lower intraocular pressure, inhibit cholesterol synthesis, relax lower urinary tract tissue, and are useful in the treatment of benign prostatic

Searched by John Dantzman 703-308-4488

hyperplasia, impotency, cardiac arrhythmia etc. Thus, 4-(3,4-difluorophenyl)oxazolidinone was treated with 1,5-dibromopentane, followed by 1-(2-methoxyphenyl)piperazine to give the oxazolidinone I which had a binding affinity for human .alpha.1A receptors of 0.5 nM.

IT 118753-70-1

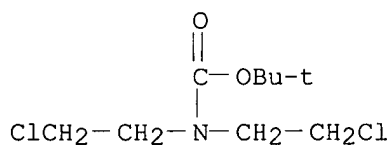
RL: RCT (Reactant)

(prepn. of heterocyclic substituted oxazolidinones for use as selective

antagonists for human .alpha.1A receptors)

RN 118753-70-1 HCAPLUS

CN Carbamic acid, bis(2-chloroethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



IT 218449-79-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

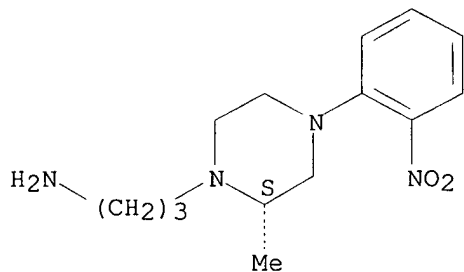
(prepn. of heterocyclic substituted oxazolidinones for use as selective

antagonists for human .alpha.1A receptors)

RN 218449-79-7 HCAPLUS

CN 1-Piperazinepropanamine, 2-methyl-4-(2-nitrophenyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 218449-80-0P

RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)

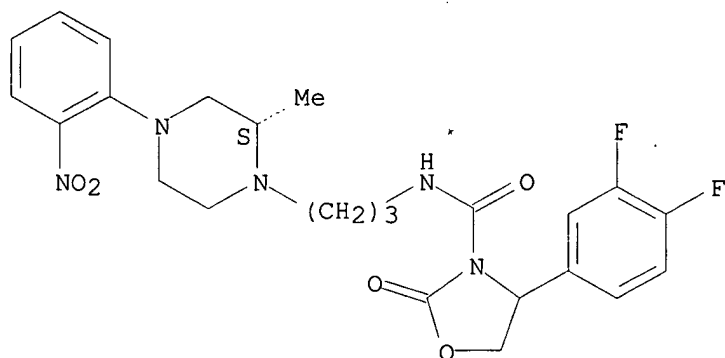
(prepn. of heterocyclic substituted oxazolidinones for use as selective

antagonists for human .alpha.1A receptors)

RN 218449-80-0 HCAPLUS

CN 3-Oxazolidinecarboxamide, 4-(3,4-difluorophenyl)-N-[3-[(2S)-2-methyl-4-(2-nitrophenyl)-1-piperazinyl]propyl]-2-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 218449-81-1P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of heterocyclic substituted oxazolidinones for use as selective

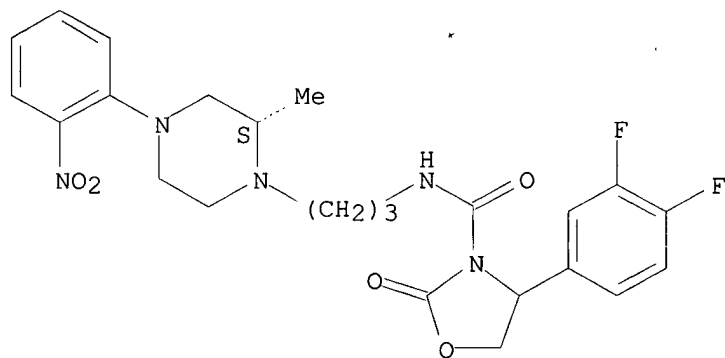
antagonists for human .alpha.1A receptors)

RN 218449-81-1 HCAPLUS

CN 3-Oxazolidinecarboxamide,

4-(3,4-difluorophenyl)-N-[3-[(2S)-2-methyl-4-(2-nitrophenyl)-1-piperazinyl]propyl]-2-oxo-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

RE.CNT 10

(1) Carling; US 5698573 A 1997

(2) Ishimitsu; US 4882431 A 1989

(3) Joshi, K; J Heterocyclic Chem 1981, V18, P1651 HCAPLUS

(7) Rhone Poulenc; EP 0599749 A1 1994 HCAPLUS

(10) Wright; US 3334098 A 1967 HCAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

Searched by John Dantzman 703-308-4488

=> d 119 bib abs hitstr 6

L19 ANSWER 6 OF 18 HCAPLUS COPYRIGHT 2000 ACS

AN 1998:764290 HCAPLUS

DN 130:25077

TI Preparation of piperidinylpropylaminocarbonyldihydropyrimidones and related compounds as selective adrenergic .alpha.1A receptor antagonists.

IN Wong, Wai C.; Lagu, Bharat; Nagarathnam, Dhanapalan; Marzabadi, Mohammad R.; Gluchowski, Charles

PA Synaptic Pharmaceutical Corporation, USA

SO PCT Int. Appl., 314 pp.

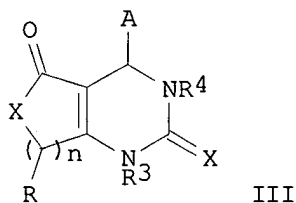
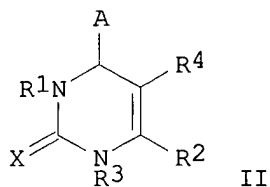
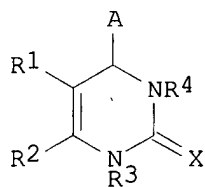
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9851311	A2	19981119	WO 1998-US10082	19980515
	WO 9851311	A3	19990114		
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9876872	A1	19981208	AU 1998-76872	19980515
PRAI	US 1997-858017		19970516		
	WO 1998-US10082		19980515		
OS	MARPAT 130:25077				
GI					



AB Title compds. [I, II, III; A = specified (substituted) (hetero)aryl; X = S, O, NR3; R1 = H, NO2, cyano, alkyl, fluoroalkyl, alkenyl, alkynyl, cycloalkyl, fluorocycloalkyl, cycloalkenyl, N(R3)2, OR3, COR3, CO2R3, CON(R3)2; R2 = H, alkyl, hydroxyalkyl, alkoxyalkyl, aminoalkyl, fluoroalkyl, alkenyl, alkynyl, cycloalkyl, fluorocycloalkyl, cycloalkenyl, cycloalkylalkyl, cyano, OR3, etc.; R3 = H, alkyl, fluoroalkyl, alkenyl, alkynyl, cycloalkyl, fluorocycloalkyl, cycloalkenyl; R4 = specified substituted heterocyclylpiperidinylalkyl, etc.; n = 0-5], were prepd. I are useful for lowering intraocular pressure, inhibiting cholesterol synthesis, relaxing lower urinary tract tissue, treatment of benign prostatic hyperplasia, impotency, cardiac arrhythmia, etc. Thus,

Searched by John Dantzman 703-308-4488

(+)-5-carboxamido-4-ethyl-1-[N-[3-(4-methoxycarbonyl-4-phenylpiperidin-1-yl)propyl]]carboxamido-6-(4-nitrophenyl)-2-oxo-1,2,3,6-tetrahydropyrimidine (prepn. given) bound to human .alpha.1A receptors with $pK_i = 9.74$.

IT 216310-53-1P 216310-54-2P 216310-55-3P

216310-56-4P

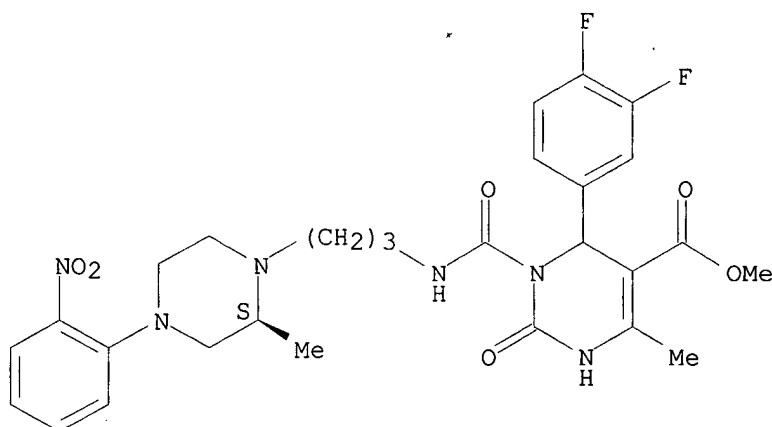
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of piperidinypropylaminocarbonyldihydropyrimidones as selective adrenergic .alpha.1A receptor antagonists)

RN 216310-53-1 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 6-(3,4-difluorophenyl)-1,2,3,6-tetrahydro-4-methyl-1-[[[3-[(2S)-2-methyl-4-(2-nitrophenyl)-1-piperazinyl]propyl]amino]carbonyl]-2-oxo-, methyl ester (9CI) (CA INDEX NAME)

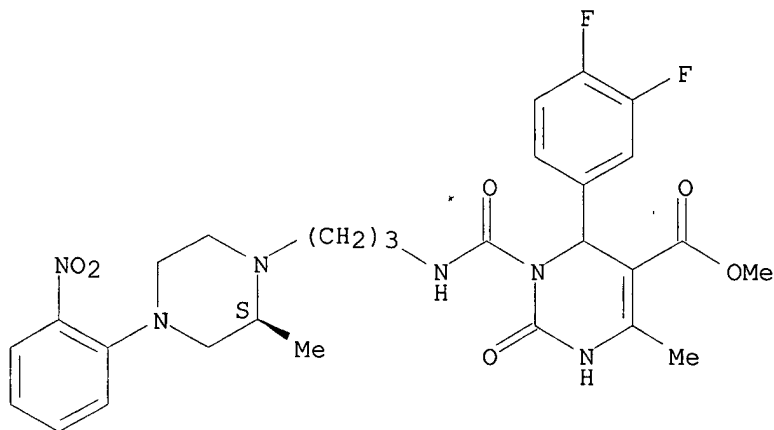
Absolute stereochemistry.



RN 216310-54-2 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 6-(3,4-difluorophenyl)-1,2,3,6-tetrahydro-4-methyl-1-[[[3-[(2S)-2-methyl-4-(2-nitrophenyl)-1-piperazinyl]propyl]amino]carbonyl]-2-oxo-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

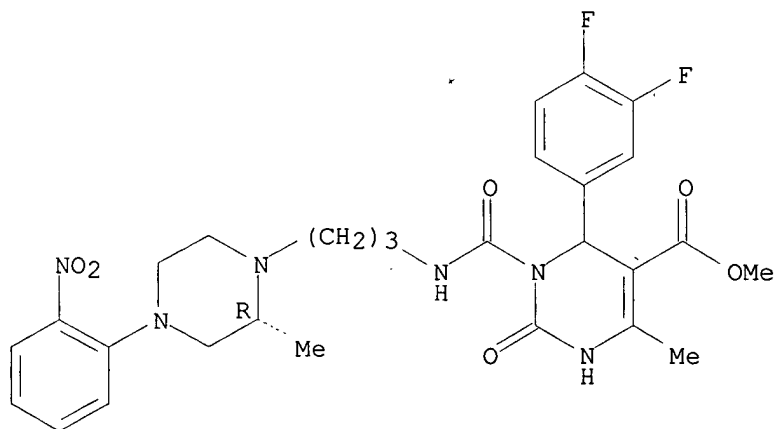


● HCl

RN 216310-55-3 HCAPLUS

CN 5-Pyrimidinecarboxylic acid, 6-(3,4-difluorophenyl)-1,2,3,6-tetrahydro-4-methyl-1-[[[3-[(2R)-2-methyl-4-(2-nitrophenyl)-1-piperazinyl]propyl]amino]carbonyl]-2-oxo-, methyl ester (9CI) (CA INDEX NAME)

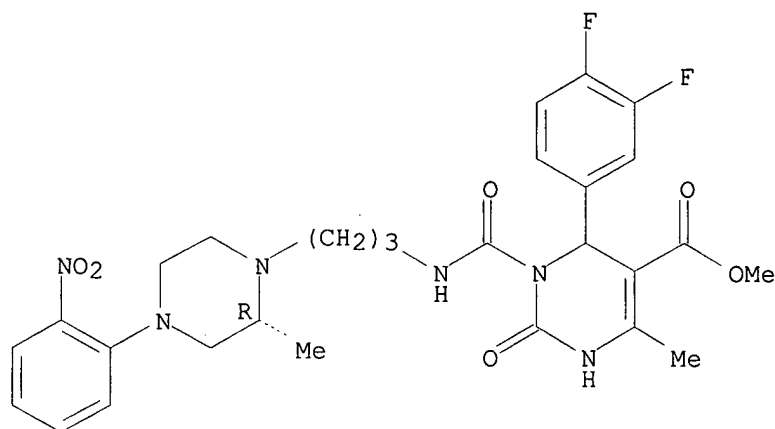
Absolute stereochemistry.



RN 216310-56-4 HCAPLUS

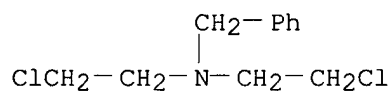
CN 5-Pyrimidinecarboxylic acid, 6-(3,4-difluorophenyl)-1,2,3,6-tetrahydro-4-methyl-1-[[[3-[(2R)-2-methyl-4-(2-nitrophenyl)-1-piperazinyl]propyl]amino]carbonyl]-2-oxo-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

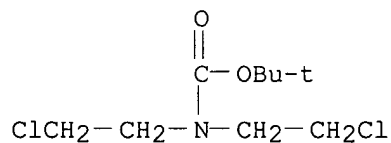


● HCl

IT 55-51-6, N,N-Bis(2-chloroethyl)benzylamine 118753-70-1
 RL: RCT (Reactant)
 (prepn. of piperidinypropylaminocarbonyldihydropyrimidones as
 selective adrenergic .alpha.1A receptor antagonists)
 RN 55-51-6 HCAPLUS
 CN Benzenemethanamine, N,N-bis(2-chloroethyl)- (9CI) (CA INDEX NAME)



RN 118753-70-1 HCAPLUS
 CN Carbamic acid, bis(2-chloroethyl)-, 1,1-dimethylethyl ester (9CI) (CA
 INDEX NAME)



=> d 119 bib abs hitstr 7

L19 ANSWER 7 OF 18 HCAPLUS COPYRIGHT 2000 ACS

AN 1998:112193 HCAPLUS

DN 128:180426

TI Preparation of piperazine and piperidine derivatives as muscarinic antagonists

IN Lowe, Derek B.; Chang, Wei K.; Kozlowski, Joseph A.; Berger, Joel G.; McQuade, Robert; Barnett, Allen; Sherlock, Margaret; Tom, Wing; Dugar, Sundeep; Chen, Lian-yong; Clader, John W.; Chackalamannil, Samuel; Wang, Yuguang; McCombie, Stuart W.; Tagat, Jayaram R.; Vice, Susan F.; Vaccaro, Wayne D.; Green, Michael J.; Browne, Margaret E.; Asberom, Theodros; Boyle, Craig D.; Josien, Hubert B.

PA Schering Corp., USA

SO PCT Int. Appl., 156 pp.

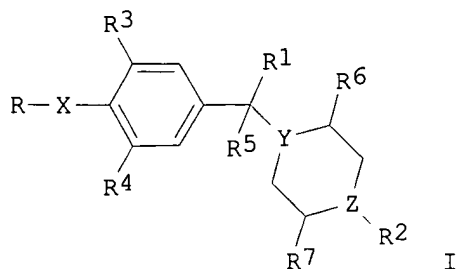
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9805292	A2	19980212	WO 1997-US13383	19970806
	WO 9805292	A3	19980402		
	W:	AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CZ, EE, GE, HU, IL, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	US 5889006	A	19990330	US 1996-700628	19960808
	AU 9738999	A1	19980225	AU 1997-38999	19970806
	EP 938483	A2	19990901	EP 1997-936296	19970806
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, LT, LV, FI, RO			
	BR 9711119	A	19991123	BR 1997-11119	19970806
	JP 2000501117	T2	20000202	JP 1998-508038	19970806
	NO 9900551	A	19990407	NO 1999-551	19990205
PRAI	US 1996-700628		19960808		
	US 1995-392697		19950223		
	US 1995-457712		19950602		
	US 1996-602403		19960216		
	WO 1997-US13383		19970806		
OS	MARPAT 128:180426				
GI					



AB Title compds. I (R = OH, HOCH₂, etc.; R₁ = H, alkyl, alkenyl, cyano, etc.;

R₂ = H, (un)substituted piperidine; R₃ = cycloalkylalkyl, haloacyl, benzyloxalkyl, etc.; R₄ = H, halo, alkyl, alkoxy, etc.; R₅ = H, alkyl, alkenyl, cyano, etc.; R₁-R₅ = (un)substituted satd. (hetero)cyclic ring; R₆ = H, alkyl, hydroxyalkyl, arylalkyl, aminoalkyl, etc.; R₇ = indolylalkyl, carboxyalkyl, etc.; X = O, S, SO, SO₂, CO, CS, NHCOO, etc.; RX = I, Br, alkylcarbonyl, etc.; Y = N, CH, C-alkyl; Z = N, CH, C-alkyl), including isomers, salts, esters, and solvates, are prepd. and are

defined

muscarinic antagonists useful for treating cognitive disorders such as Alzheimer's disease. Pharmaceutical compns. and methods of prepn. are also disclosed. Also disclosed are synergistic combinations of I with acetylcholinesterase inhibitors.

IT 203180-25-0P 203186-74-7P 203187-02-4P
203187-63-7P

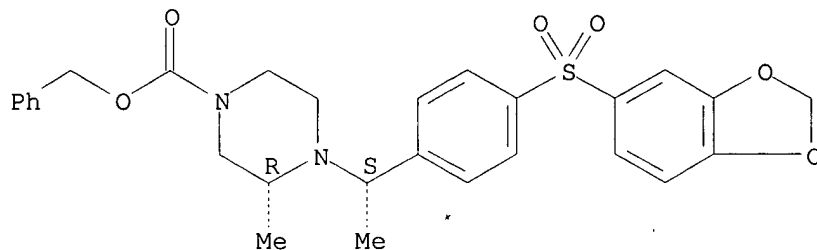
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

(prepn. of piperazine and piperidine derivs. as muscarinic antagonists)

RN 203180-25-0 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[(1S)-1-[4-(1,3-benzodioxol-5-ylsulfonyl)phenyl]ethyl]-3-methyl-, phenylmethyl ester, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

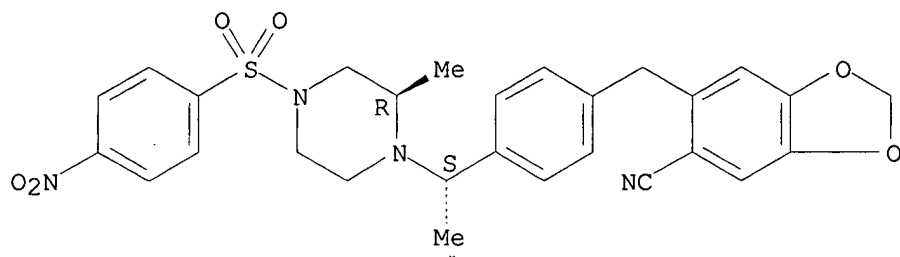


RN 203186-74-7 HCAPLUS

CN Piperazine,

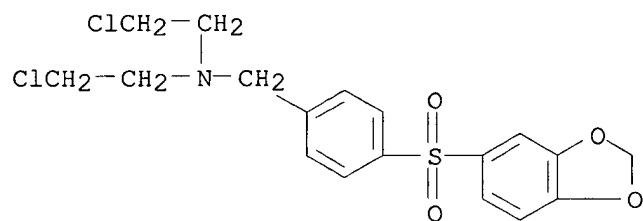
1-[1-[4-[(6-cyano-1,3-benzodioxol-5-yl)methyl]phenyl]ethyl]-2-methyl-4-[(4-nitrophenyl)sulfonyl]-, [S-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 203187-02-4 HCAPLUS

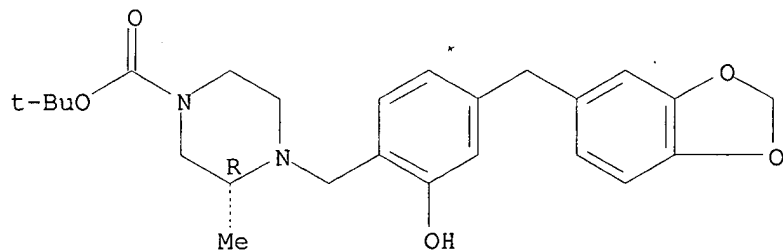
CN Benzenemethanamine, 4-(1,3-benzodioxol-5-ylsulfonyl)-N,N-bis(2-chloroethyl)- (9CI) (CA INDEX NAME)



RN 203187-63-7 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-(1,3-benzodioxol-5-ylmethyl)-2-hydroxyphenyl]methyl]-3-methyl-, 1,1-dimethylethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d 119 bib abs hitstr 8

L19 ANSWER 8 OF 18 HCAPLUS COPYRIGHT 2000 ACS

AN 1997:684389 HCAPLUS

DN 127:358876

TI Preparation of heterocyclylphenoxyalkanoates and analogs as cell aggregation inhibitors

IN Pieper, Helmut; Linz, Gunter; Austel, Volkhard; Himmelsbach, Frank; Guth, Brian; Weisenberger, Johannes

PA Dr. Karl Thomae G.m.b.H., Germany

SO PCT Int. Appl., 131 pp.

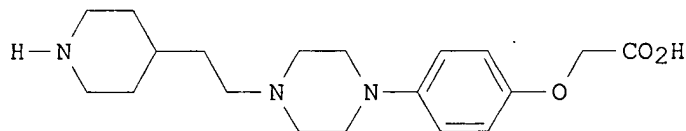
CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9737975	A1	19971016	WO 1997-EP1698	19970404
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	DE 19614204	A1	19971016	DE 1996-19614204	19960410
	US 5994356	A	19991130	US 1997-832259	19970403
	AU 9726368	A1	19971029	AU 1997-26368	19970404
	EP 892783	A1	19990127	EP 1997-918113	19970404
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	ZA 9703002	A	19981009	ZA 1997-3002	19970409
PRAI	DE 1996-19614204		19960410		
	WO 1997-EP1698		19970404		
OS	MARPAT 127:358876				
GI					

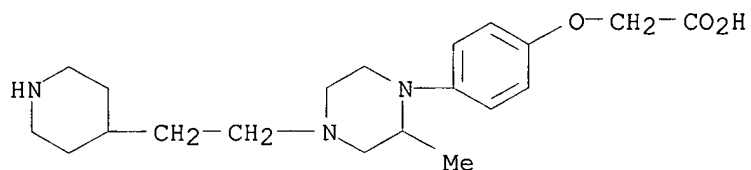


II

AB R1Z1Z2Z3Z4Z5R [I; R = OH, alkoxy, OPh, etc.; R1 = H, (phenyl)alkyl, etc.; Z1 = (oxo)piperazine-1,4-diyl, (oxo)piperidine-1,4-diyl; Z2 = CH2CH2, COCH2, NHCO, CO2, etc.; Z3 = (un)substituted (oxo)piperazine-1,4-diyl, -(oxo)piperidine-1,4- or 4,1-diyl, -cyclohexylene, etc.; Z4 = piperidinediyl, phenylene, cyclohexylene, etc.; Z5 = OCH2CO, NHCH2CO, CH2CO, etc.] were prepd. Thus, Me 4-piperazinophenoxyacetate was N-alkylated by 2-(1-tert-butoxycarbonyl-4-piperidinyl)ethyl methanesulfonate and the product converted in 2 steps to give title compd.

Searched by John Dantzman 703-308-4488

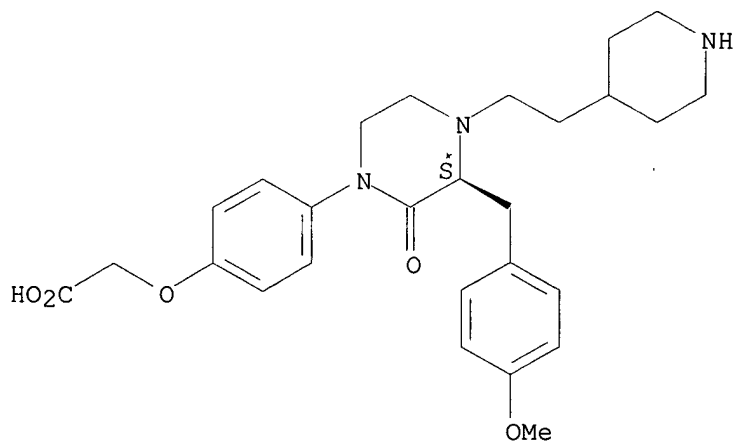
II.2HCl. Data for biol. activity of I were given.
 IT 198626-02-7P 198626-05-0P 198626-25-4P
 198626-28-7P 198626-78-7P 198626-80-1P
 198627-21-3P 198627-41-7P
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of heterocyclylphenoxyalkanoates and analogs as cell aggregation inhibitors)
 RN 198626-02-7 HCAPLUS
 CN Acetic acid, [4-[2-methyl-4-[2-(4-piperidinyl)ethyl]-1-piperazinyl]phenoxy]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 198626-05-0 HCAPLUS
 CN Acetic acid, [4-[3-[(4-methoxyphenyl)methyl]-2-oxo-4-[2-(4-piperidinyl)ethyl]-1-piperazinyl]phenoxy]-, dihydrochloride, (S)- (9CI) (CA INDEX NAME)

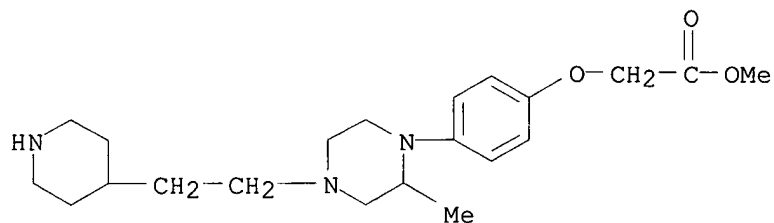
Absolute stereochemistry.



● 2 HCl

RN 198626-25-4 HCAPLUS
 CN Acetic acid, [4-[2-methyl-4-[2-(4-piperidinyl)ethyl]-1-piperazinyl]phenoxy]-, dihydrochloride, (S)- (9CI) (CA INDEX NAME)
 Searched by John Dantzman 703-308-4488

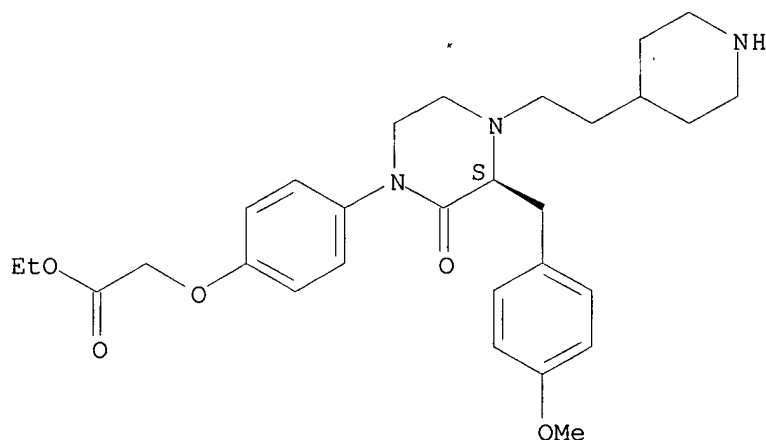
piperazinyl]phenoxy]-, methyl ester, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

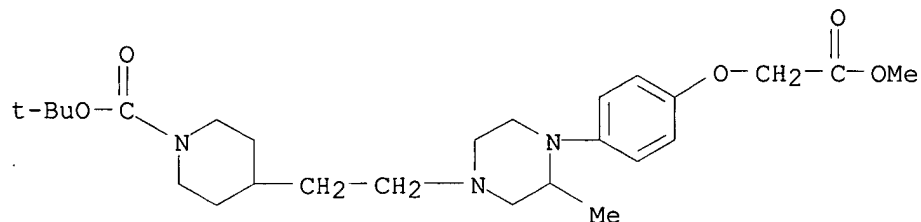
RN 198626-28-7 HCAPLUS
CN Acetic acid, [4-[3-[(4-methoxyphenyl)methyl]-2-oxo-4-[2-(4-piperidinyl)ethyl]-1-piperazinyl]phenoxy]-, ethyl ester, dihydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 2 HCl

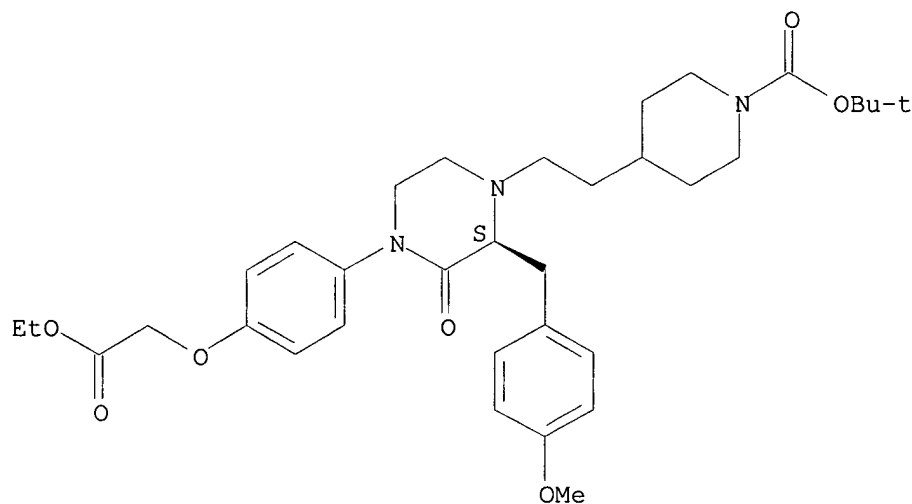
RN 198626-78-7 HCAPLUS
CN 1-Piperidinecarboxylic acid, 4-[2-[4-[4-(2-methoxy-2-oxoethoxy)phenyl]-3-methyl-1-piperazinyl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 198626-80-1 HCAPLUS

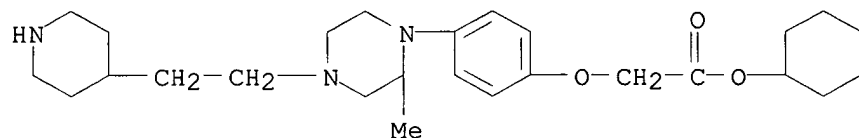
CN 1-Piperidinecarboxylic acid, 4-[2-[4-[4-(2-ethoxy-2-oxoethoxy)phenyl]-2-[(4-methoxyphenyl)methyl]-3-oxo-1-piperazinyl]ethyl]-, 1,1-dimethylethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 198627-21-3 HCAPLUS

CN Acetic acid, [4-[2-methyl-4-[2-(4-piperidiny)ethyl]-1-piperazinyl]phenoxy]-, cyclohexyl ester, dihydrochloride (9CI) (CA INDEX NAME)

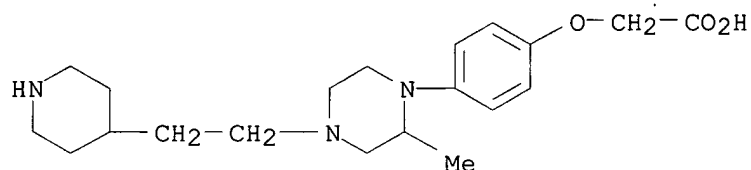


● 2 HCl

RN 198627-41-7 HCAPLUS

CN Acetic acid, [4-[2-methyl-4-[2-(4-piperidiny)ethyl]-1-piperazinyl]phenoxy]-, cyclohexyl ester, dihydrochloride (9CI) (CA INDEX NAME)
Searched by John Dantzman 703-308-4488

piperaziny]phenoxy]- (9CI) (CA INDEX NAME)



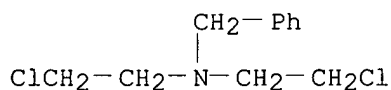
IT 55-51-6, N,N-Bis(2-chloroethyl)benzylamine

RL: RCT (Reactant)

(prepn. of heterocyclylphenoxyalkanoates and analogs as cell aggregation inhibitors)

RN 55-51-6 HCAPLUS

CN Benzenemethanamine, N,N-bis(2-chloroethyl)- (9CI) (CA INDEX NAME)

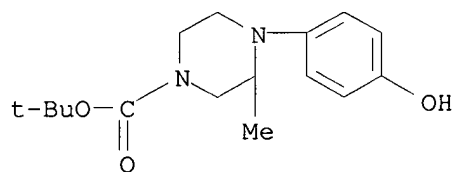


IT 198627-59-7P 198627-60-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of heterocyclylphenoxyalkanoates and analogs as cell aggregation inhibitors)

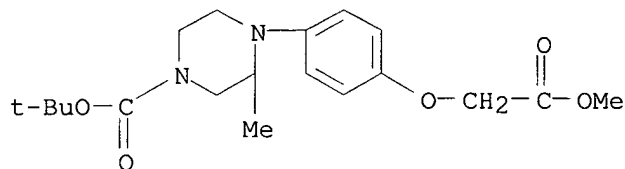
RN 198627-59-7 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-(4-hydroxyphenyl)-3-methyl-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 198627-60-0 HCAPLUS

CN 1-Piperazinecarboxylic acid,
4-[4-(2-methoxy-2-oxoethoxy)phenyl]-3-methyl-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



=> d 119 bib abs hitstr 9

L19 ANSWER 9 OF 18 HCAPLUS COPYRIGHT 2000 ACS

AN 1997:513626 HCAPLUS

DN 127:205470

TI Preparation of heterocyclylhydroxyalkanamides and related compounds as HIV

protease inhibitors.

IN Tung, Roger Dennis; Salituro, Francesco Gerald; Deininger, David D.; Bhisetti, Govinda Rao; Baker, Christopher Todd; Spaltenstein, Andrew; et al.

PA Vertex Pharmaceuticals Inc., USA; Tung, Roger Dennis; Salituro, Francesco Gerald; Deininger, David D.; Bhisetti, Govinda Rao

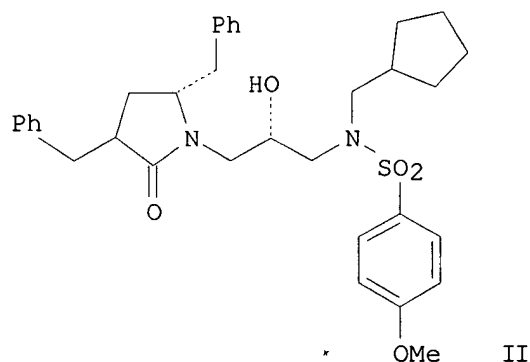
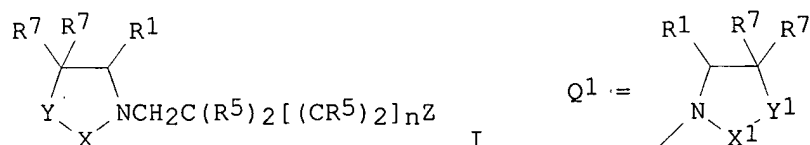
SO PCT Int. Appl., 336 pp.

CODEN: PIXXD2

DT Patent

LA English

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9727180 A1		19970731	WO 1997-US1610	19970122
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:	AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG				
PRAI	US 1996-592777		19960126		
	US 1996-724563		19960930		
OS	MARPAT 127:205470				
GI					

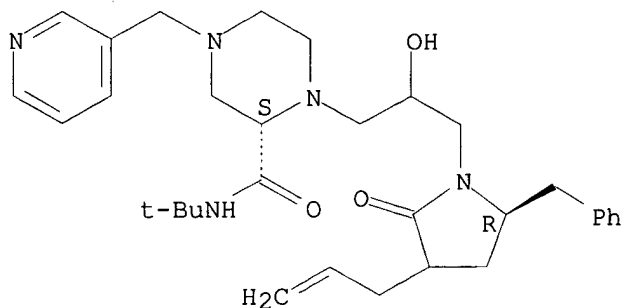


AB Title compds. [I; Z = (QR1)rX1R4, Q1, etc.; ; X, X1 = CO, CO2, SO, SO2;
Y,
Y1 = [C(R2)2]p, NR2, C:C(R2)2, NR2CH2, etc.; Q = CH, N; R1, R2 = H,
(substituted) alkyl, alkenyl, alkynyl, (fused) cycloalkyl, cycloalkenyl,
etc.; R4 = (substituted) OR9, XR9, N(R9)2, R6, alkyl, alkenyl, (fused)
cycloalkyl, cycloalkenyl, etc.; R5 = H, OH, O, R1; R6 = (substituted)
aryl, carbocyclyl, heterocyclyl; R7 = H, OH, O; R9 = H, alkyl, alkenyl,
alkynyl, aryl, carbocyclyl, heterocyclyl, aralkyl, carbocyclylalkyl,
heterocyclylalkyl; n = 1, 2; r = 0-2], were prepd. Thus, title compd.
(II) (prepn. given) inhibited HIV protease with $K_i = 1.5$ nM.

IT **194596-67-3P**
RL: BAC (Biological activity or effector, except adverse); RCT
(Reactant);
SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
study); PREP (Preparation); USES (Uses)
(prepn. of heterocyclylhydroxyalkanamides and related compds. as HIV
protease inhibitors)

RN 194596-67-3 HCAPLUS
CN 2-Piperazinecarboxamide,
N-(1,1-dimethylethyl)-1-[2-hydroxy-3-[(5R)-2-oxo-
5-(phenylmethyl)-3-(2-propenyl)-1-pyrrolidinyl]propyl]-4-(3-
pyridinylmethyl)-, (2S)- (9CI) (CA INDEX NAME)

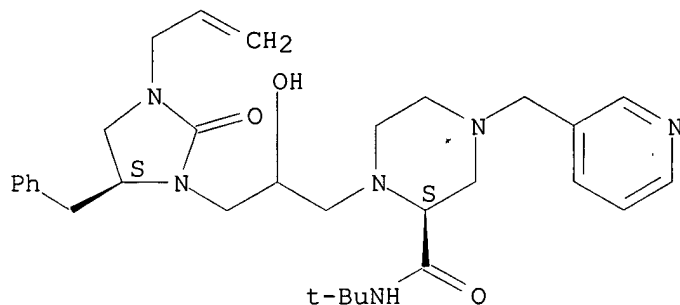
Absolute stereochemistry.



IT **194596-59-3P 194596-96-8P 194597-00-7P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic
preparation); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
(prepn. of heterocyclylhydroxyalkanamides and related compds. as HIV
protease inhibitors)

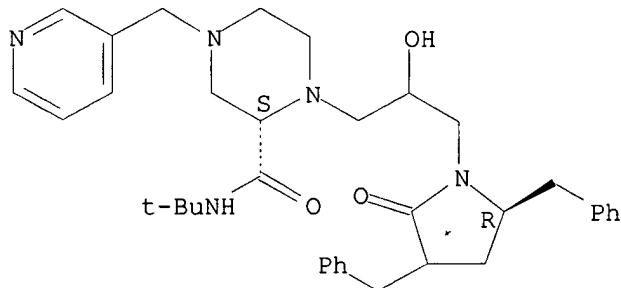
RN 194596-59-3 HCAPLUS
CN 2-Piperazinecarboxamide,
N-(1,1-dimethylethyl)-1-[2-hydroxy-3-[(5S)-2-oxo-
5-(phenylmethyl)-3-(2-propenyl)-1-imidazolidinyl]propyl]-4-(3-
pyridinylmethyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



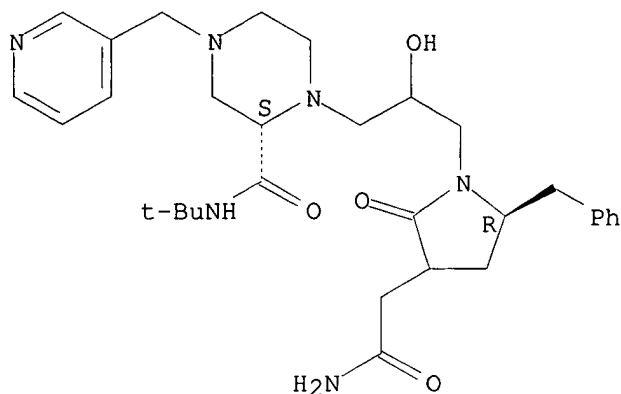
RN 194596-96-8 HCAPLUS
 CN 2-Piperazinecarboxamide,
 N-(1,1-dimethylethyl)-1-[2-hydroxy-3-[(5R)-2-oxo-
 3,5-bis(phenylmethyl)-1-pyrrolidinyl]propyl]-4-(3-pyridinylmethyl)-,
 (2S)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 194597-00-7 HCAPLUS
 CN 2-Piperazinecarboxamide, 1-[3-[(5R)-3-(2-amino-2-oxoethyl)-2-oxo-5-
 (phenylmethyl)-1-pyrrolidinyl]-2-hydroxypropyl]-N-(1,1-dimethylethyl)-4-(3-
 pyridinylmethyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



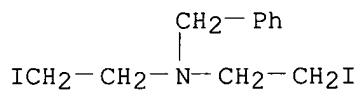
IT 194599-81-0

RL: RCT (Reactant)

(prepn. of heterocyclylhydroxyalkanamides and related compds. as HIV protease inhibitors)

RN 194599-81-0 HCAPLUS

CN Benzenemethanamine, N,N-bis(2-iodoethyl)- (9CI) (CA INDEX NAME)



IT 194598-24-8P

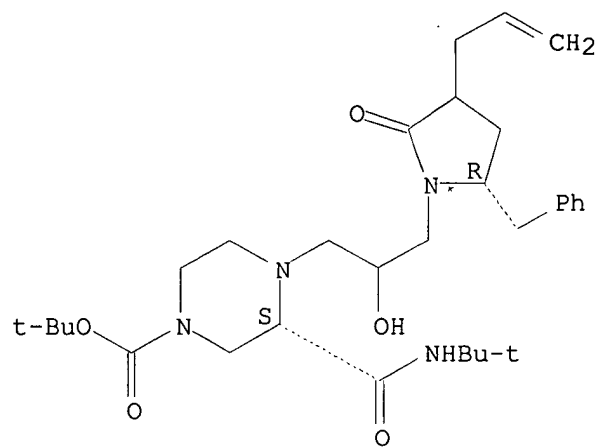
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

(prepn. of heterocyclylhydroxyalkanamides and related compds. as HIV protease inhibitors)

RN 194598-24-8 HCAPLUS

CN 1-Piperazinecarboxylic acid, 3-[[[(1,1-dimethylethyl)amino]carbonyl]-4-[2-hydroxy-3-[(5R)-2-oxo-5-(phenylmethyl)-3-(2-propenyl)-1-pyrrolidinyl]propyl]-, 1,1-dimethylethyl ester, (3S)- (9CI) (CA INDEX NAME)

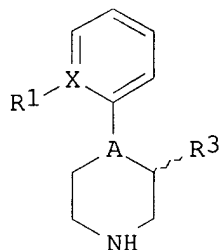
Absolute stereochemistry.



=> d 119 bib abs hitstr 10

L19 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2000 ACS
 AN 1997:443299 HCAPLUS
 DN 127:65787
 TI Preparation of piperazine and piperidine derivatives as alpha 1a
 adrenergic receptor antagonists
 IN Bock, Mark G.; Patane, Michael A.; Ponticello, Rose Ann
 PA Merck and Co., Inc., USA; Bock, Mark G.; Patane, Michael A.; Ponticello,
 Rose Ann
 SO PCT Int. Appl., 50 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9717967	A1	19970522	WO 1996-US18321	19961112
	W:		AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG		
	AU 9677343	A1	19970605	AU 1996-77343	19961112
	AU 710337	B2	19990916		
	EP 865280	A1	19980923	EP 1996-940465	19961112
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,		
FI	JP 11507395	T2	19990629	JP 1996-519091	19961112
	US 5922722	A	19990713	US 1998-66477	19980422
PRAI	US 1995-6765		19951115		
	GB 1996-3423		19960219		
	WO 1996-US18321		19961112		
OS	MARPAT 127:65787				
GI					



I

AB I [A = CR₂, N; X = C, N, but when X = N, R₁ is absent; R₁ = H, halo, alkyl, haloalkyl, alkoxy, cyano, CONR₄R₅, cycloalkyl; R₂ = H, cyano, CONR₄R₅, CO₂R₄; R₃ = H, cyano, CONR₄R₅, CO₂R₄, SO₂R₄; R₄, R₅ = H, alkyl,

Searched by John Dantzman 703-308-4488

cycloalkyl] were prepd. as alpha 1a adrenergic receptor antagonists (no data). I may be used for treating benign prostatic hyperplasia (no data).

E.g., reaction of (ClCH₂CH₂)₂N(BOC) and 2-ClC₆H₄CH₂CN in THF/DMF/NaH, followed by treatment of the piperidine product with HCl/HOAc gave 4-(2-chlorophenyl)-4-cyanopiperidine hydrochloride.

IT 135036-22-5P

RL: BAC (Biological activity or effector, except adverse); RCT

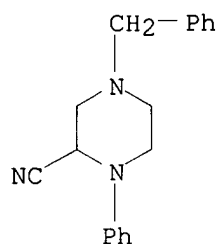
(Reactant);

SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of piperazine and piperidine derivs. as alpha 1a adrenergic receptor antagonists)

RN 135036-22-5 HCAPLUS

CN 2-Piperazinecarbonitrile, 1-phenyl-4-(phenylmethyl)- (9CI) (CA INDEX NAME)



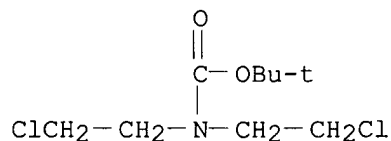
IT 118753-70-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

(prepn. of piperazine and piperidine derivs. as alpha 1a adrenergic receptor antagonists)

RN 118753-70-1 HCAPLUS

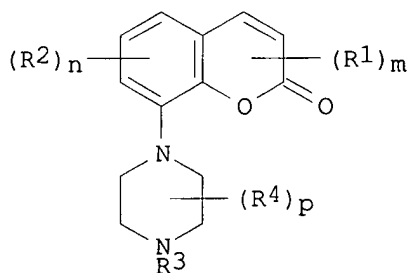
CN Carbamic acid, bis(2-chloroethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



=> d 119 bib abs hitstr 11

L19 ANSWER 11 OF 18 HCAPLUS COPYRIGHT 2000 ACS
 AN 1995:777741 HCAPLUS
 DN 123:169660
 TI Preparation of 1-(2H-1-benzopyran-2-one-8-yl)piperazine serotoninergic agonists and antagonists
 IN Van Steen, Bartholomeus Johanne; Hartog, Jan; Van Der Heyden, Johannes Antoni; Schipper, Jacques
 PA Duphar International Research B.V., Neth.
 SO Eur. Pat. Appl., 17 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 650964	A1	19950503	EP 1994-203088	19941025
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	CA 2134630	AA	19950503	CA 1994-2134630	19941028
	NO 9404120	A	19950503	NO 1994-4120	19941028
	FI 9405086	A	19950503	FI 1994-5086	19941028
	ZA 9408520	A	19950626	ZA 1994-8520	19941028
	CN 1105360	A	19950719	CN 1994-117603	19941028
	JP 07188207	A2	19950725	JP 1994-287129	19941028
	HU 72320	A2	19960429	HU 1994-3110	19941028
	AU 9477562	A1	19950601	AU 1994-77562	19941031
	AU 675880	B2	19970220		
	IL 111461	A1	19980615	IL 1994-111461	19941031
PRAI	EP 1993-203058		19931102		
OS	MARPAT 123:169660				
GI					



AB The title compds. [I; R1 = (un)substituted alkyl, alkoxy, OH, pyrrolidinyl, piperidinyl, morpholinyl, etc.; R2 = alkyl, alkoxy, halogen, CF3; R3 = H, alkyl, alkenyl; R4 = alkyl; m, p = 0-2; n = 0, 1; where m + n is .gtoreq.1] [e.g., 1-(3-methyl-2H-1-benzopyran-2-one-8-yl)piperazine hydrochloride; m.p. 270-272.degree.], which are 5-HT1A agonists (no data) and 5-HT1D antagonists (no data), are prepd. and are useful for the treatment of affections or diseases of the central nervous system caused

Searched by John Dantzman 703-308-4488

by disturbances of the serotonergic transmission (no data).

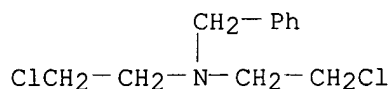
IT 10429-82-0

RL: RCT (Reactant)

(prepn. of 1-(2H-1-benzopyran-2-one-8-yl)piperazine serotonergic agonists and antagonists from)

RN 10429-82-0 HCAPLUS

CN Benzenemethanamine, N,N-bis(2-chloroethyl)-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

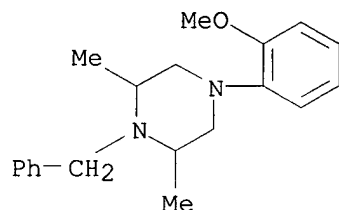
IT 167378-20-3P 167378-21-4P 167378-22-5P

167378-23-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of 1-(2H-1-benzopyran-2-one-8-yl)piperazine serotonergic agonists and antagonists from)

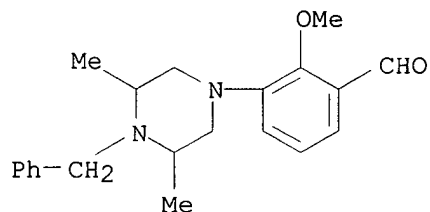
RN 167378-20-3 HCAPLUS

CN Piperazine, 4-(2-methoxyphenyl)-2,6-dimethyl-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 167378-21-4 HCAPLUS

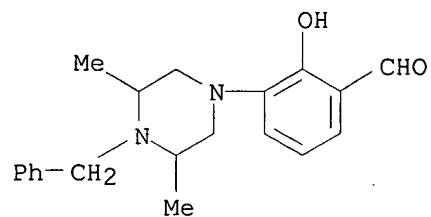
CN Benzaldehyde, 3-[3,5-dimethyl-4-(phenylmethyl)-1-piperazinyl]-2-methoxy- (9CI) (CA INDEX NAME)



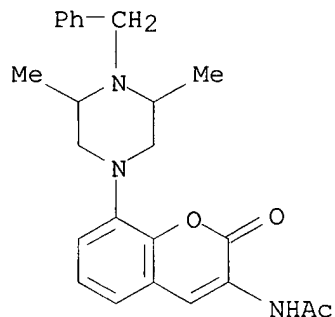
RN 167378-22-5 HCAPLUS

CN Benzaldehyde, 3-[3,5-dimethyl-4-(phenylmethyl)-1-piperazinyl]-2-hydroxy- (9CI) (CA INDEX NAME)

Searched by John Dantzman 703-308-4488



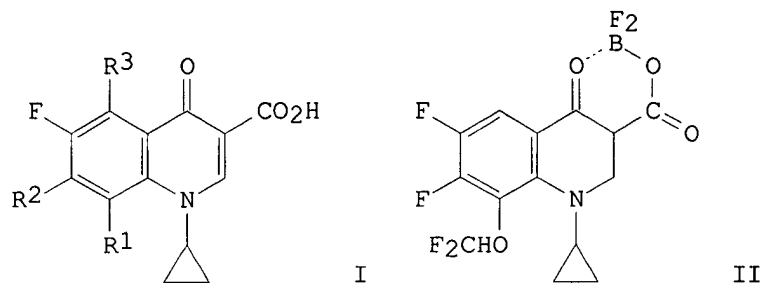
RN 167378-23-6 HCAPLUS
CN Acetamide, N-[8-[3,5-dimethyl-4-(phenylmethyl)-1-piperazinyl]-2-oxo-2H-1-benzopyran-3-yl]- (9CI) (CA INDEX NAME)



=> d 119 bib abs hitstr 12

L19 ANSWER 12 OF 18 HCAPLUS COPYRIGHT 2000 ACS
 AN 1990:478178 HCAPLUS
 DN 113:78178
 TI Preparation of 4-oxoquinoline-3-carboxylic acid derivatives as
 antibacterial agents
 IN Iwata, Masayuki; Kimura, Tomio; Inoue, Teruhiko; Fujihara, Yoshimi;
 Katsube, Tetsushi
 PA Ube Industries, Ltd., Japan; Sankyo Co., Ltd.
 SO Eur. Pat. Appl., 60 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 352123	A2	19900124	EP 1989-307423	19890720
	EP 352123	A3	19900905		
	EP 352123	B1	19950118		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	FI 8903467	A	19900121	FI 1989-3467	19890718
	FI 95130	B	19950915		
	FI 95130	C	19951227		
	AU 8938218	A1	19900125	AU 1989-38218	19890718
	AU 618823	B2	19920109		
	DK 8903592	A	19900121	DK 1989-3592	19890719
	NO 8902952	A	19900122	NO 1989-2952	19890719
	NO 175256	B	19940613		
	NO 175256	C	19940921		
	JP 02124873	A2	19900514	JP 1989-186389	19890719
	JP 06045601	B4	19940615		
	CA 1335670	A1	19950523	CA 1989-606157	19890719
	CN 1040977	A	19900404	CN 1989-107044	19890720
	CN 1028226	B	19950419		
	EP 610958	A2	19940817	EP 1994-103669	19890720
	EP 610958	A3	19950322		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	ES 2070175	T3	19950601	ES 1989-307423	19890720
	JP 02231476	A2	19900913	JP 1989-230743	19890906
	US 5348961	A	19940920	US 1990-594283	19901009
	US 5073556	A	19911217	US 1991-659829	19910222
	US 5436367	A	19950725	US 1994-227678	19940414
	US 5496951	A	19960305	US 1995-379975	19950127
	JP 11286470	A2	19991019	JP 1999-32531	19990210
	JP 2992033	B2	19991220		
PRAI	JP 1988-180557		19880720		
	JP 1988-224220		19880907		
	US 1989-381025		19890717		
	EP 1989-307423		19890720		
	JP 1989-230743		19890906		
	US 1990-594283		19901009		
	US 1994-227678		19940414		
OS	MARPAT 113:78178				
GI					



AB The title compds. (I; R1 = fluorinated MeO, R2 = N heterocycle; R3 = H, NH2) are prepd. 2-Methylpiperazine (1.63 g) was added to a soln. of 2.58 g chelate II (prepn. given) in Me2SO and the mixt. was kept overnight at room temp. to give 1.74 g I (R1 = OCHF2, R2 = F, R3 = H), which showed

MIC of 0.05 .mu.g/mL against Staphylococcus aureus 209P. Also prepd. were 60 addnl. I and salts.

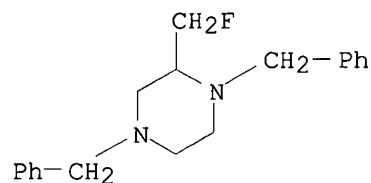
IT 111760-36-2P 128427-23-6P 128427-28-1P
128427-29-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

(prepn. and reaction of, in prepn. of antibacterial oxoquinolinecarboxylic acid derivs.)

RN 111760-36-2 HCAPLUS

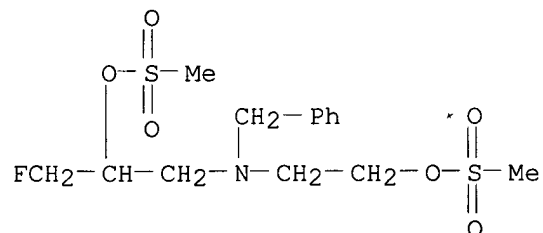
CN Piperazine, 2-(fluoromethyl)-1,4-bis(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 128427-23-6 HCAPLUS

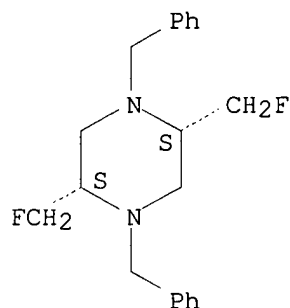
CN 2-Propanol,

1-fluoro-3-[[2-[(methylsulfonyl)oxy]ethyl](phenylmethyl)amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



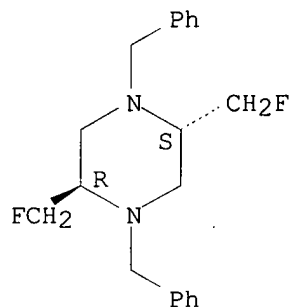
RN 128427-28-1 HCAPLUS
 CN Piperazine, 2,5-bis(fluoromethyl)-1,4-bis(phenylmethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 128427-29-2 HCAPLUS
 CN Piperazine, 2,5-bis(fluoromethyl)-1,4-bis(phenylmethyl)-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

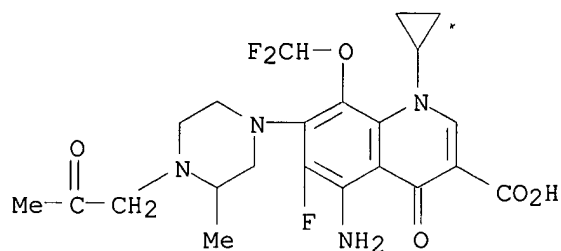


IT 128427-77-0P 128427-78-1P 128427-80-5P
 128427-81-6P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of, as antibacterial agent)

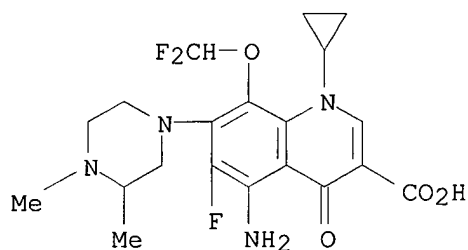
RN 128427-77-0 HCAPLUS

CN 3-Quinolinecarboxylic acid, 5-amino-1-cyclopropyl-8-(difluoromethoxy)-6-fluoro-1,4-dihydro-7-[3-methyl-4-(2-oxopropyl)-1-piperazinyl]-4-oxo- (9CI)
 (CA INDEX NAME)



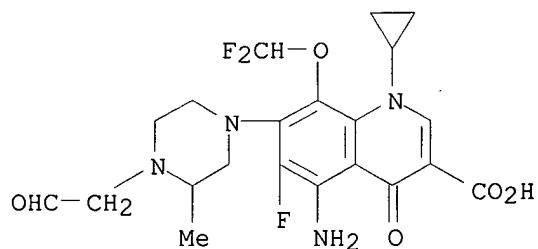
RN 128427-78-1 HCAPLUS

CN 3-Quinolinecarboxylic acid, 5-amino-1-cyclopropyl-8-(difluoromethoxy)-7-(3,4-dimethyl-1-piperazinyl)-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



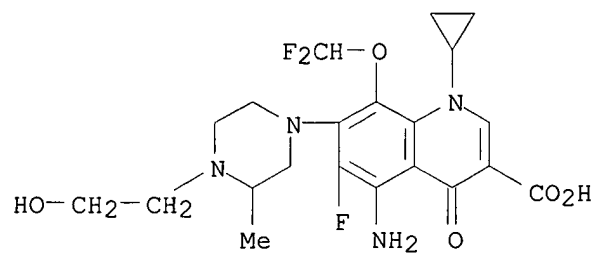
RN 128427-80-5 HCAPLUS

CN 3-Quinolinecarboxylic acid, 5-amino-1-cyclopropyl-8-(difluoromethoxy)-6-fluoro-1,4-dihydro-7-[3-methyl-4-(2-oxoethyl)-1-piperazinyl]-4-oxo- (9CI) (CA INDEX NAME)



RN 128427-81-6 HCAPLUS

CN 3-Quinolinecarboxylic acid, 5-amino-1-cyclopropyl-8-(difluoromethoxy)-6-fluoro-1,4-dihydro-7-[4-(2-hydroxyethyl)-3-methyl-1-piperazinyl]-4-oxo- (9CI) (CA INDEX NAME)



=> d 119 bib abs hitstr 13

L19 ANSWER 13 OF 18 HCAPLUS COPYRIGHT 2000 ACS

AN 1985:132069 HCAPLUS

DN 102:132069

TI

[[4-[4-(4-Phenyl-1-piperazinyl)phenoxyethyl]-1,3-dioxolan-2-yl]methyl]-1H-imidazoles and 1H-1,2,4-triazoles

IN Heeres, Jan; Stokbroekx, Raymond A.; Backx, Leo J. J.

PA Janssen Pharmaceutica N. V., Belg.

SO Eur. Pat. Appl., 113 pp.

CODEN: EPXXDW

DT Patent

LA English

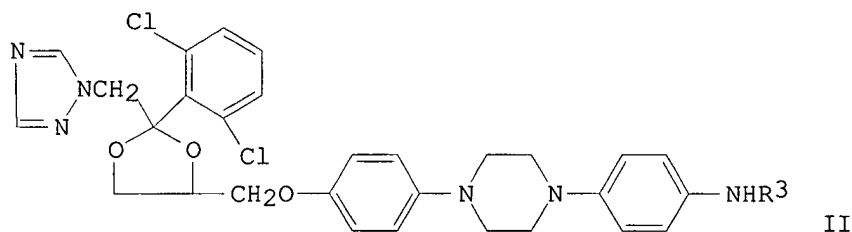
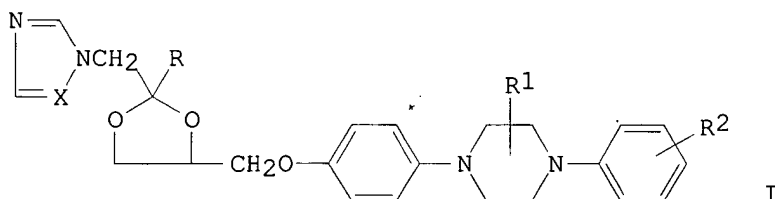
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 118138	A1	19840912	EP 1984-200092	19840124
	EP 118138	B1	19890614		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	US 4619931	A	19861028	US 1984-569122	19840109
	AT 44030	E	19890615	AT 1984-200092	19840124
	CA 1271194	A1	19900703	CA 1984-447194	19840210
	JP 59172486	A2	19840929	JP 1984-32768	19840224
	JP 07042285	B4	19950510		
	DK 8401070	A	19840829	DK 1984-1070	19840227
	DK 164454	B	19920629		
	DK 164454	C	19921109		
	FI 8400781	A	19840829	FI 1984-781	19840227
	FI 82043	B	19900928		
	FI 82043	C	19910110		
	NO 8400735	A	19840829	NO 1984-735	19840227
	NO 160138	B	19881205		
	NO 160138	C	19890315		
	AU 8425097	A1	19840906	AU 1984-25097	19840227
	AU 559461	B2	19870312		
	ZA 8401449	A	19851030	ZA 1984-1449	19840227
	IL 71066	A1	19871220	IL 1984-71066	19840227
	ES 530138	A1	19850516	ES 1984-530138	19840228
	ES 530140	A1	19850601	ES 1984-530140	19840228
	ES 530139	A1	19850901	ES 1984-530139	19840228
	US 4735942	A	19880405	US 1986-869537	19860602
	NO 8702221	A	19840829	NO 1987-2221	19870527
	NO 163817	B	19900417		
	NO 163817	C	19900725		
	US 4861879	A	19890829	US 1988-154173	19880209
	CA 1309412	A2	19921027	CA 1989-615528	19891025
	FI 84058	B	19910628	FI 1989-5089	19891026
	FI 84058	C	19911010		
	NO 9000396	A	19840829	NO 1990-396	19900129
	NO 173866	B	19931108		
	NO 173866	C	19940216		
	JP 05246999	A2	19930924	JP 1991-24132	19910124
	JP 07064823	B4	19950712		
	DK 9100783	A	19910429	DK 1991-783	19910429
	DK 9101088	A	19910607	DK 1991-1088	19910607

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DK 166673 B1 19930628
 PRAI US 1983-470405 19830228
 US 1984-569122 19840109
 EP 1984-200092 19840124
 CA 1984-447194 19840210
 FI 1984-781 19840227
 NO 1984-735 19840227
 US 1986-869537 19860602
 GI



AB Over 300 title compds. I [R = (un)substituted Ph; R1 = H, alkyl; R2 = urea, thiourea, amido, 5-membered N-contg. heterocycle; X = N, CH] and their intermediates, useful as pharmaceutical fungicides, were prepd. Thus, aniline deriv. II (R3 = H) was treated with ClCO2Ph to give II (R3

=

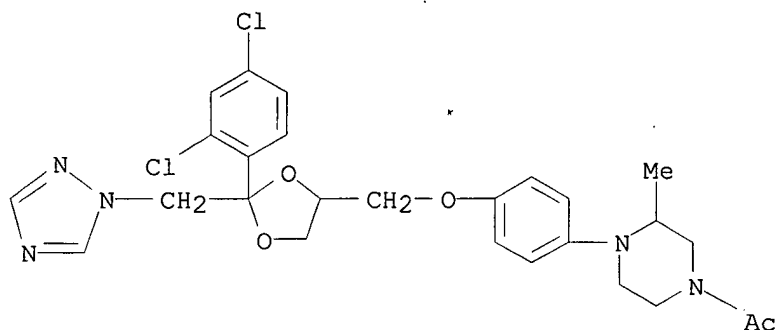
CO2Ph). At 2.5 mg/kg orally, daily for 3 days in rats, II (R3 = CO2Ph) controlled *Candida albicans* at the 14th day after infection.

IT **95182-91-5P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and deacylation of)

RN 95182-91-5 HCAPLUS

CN Piperazine, 4-acetyl-1-[4-[[2-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-2-methyl- (9CI) (CA INDEX NAME)

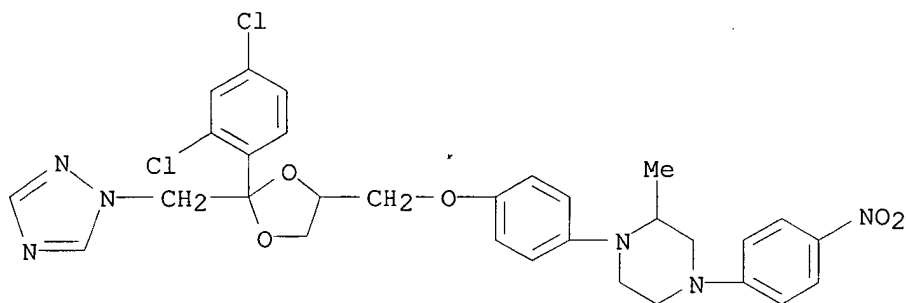


IT 95182-93-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and hydrogenation of)

RN 95182-93-7 HCAPLUS

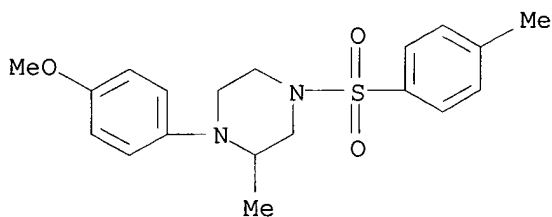
CN Piperazine,

1-[4-[[2-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-
1,3-dioxolan-4-yl]methoxy]phenyl]-2-methyl-4-(4-nitrophenyl)- (9CI) (CA
INDEX NAME)

IT 95182-88-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and hydrolysis of)

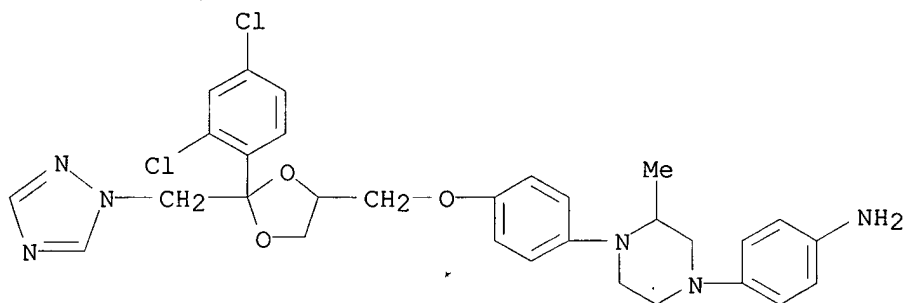
RN 95182-88-0 HCAPLUS

CN Piperazine, 1-(4-methoxyphenyl)-2-methyl-4-[(4-methylphenyl)sulfonyl]-
(9CI) (CA INDEX NAME)

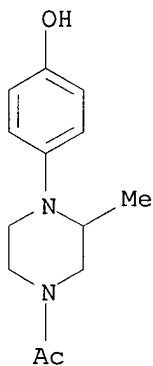
IT 95182-94-8P

Searched by John Dantzman 703-308-4488

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and pharmaceutical fungicidal activity of)
 RN 95182-94-8 HCAPLUS
 CN Benzenamine, 4-[4-[4-[[2-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-3-methyl-1-piperazinyl]-
 (9CI)
 (CA INDEX NAME)

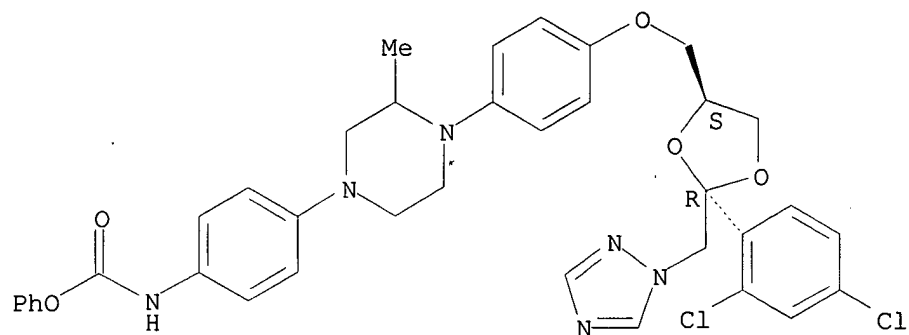


IT **95182-90-4P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and reaction of, with dioxolanemethanol deriv.)
 RN 95182-90-4 HCAPLUS
 CN Piperazine, 4-acetyl-1-(4-hydroxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)



IT **95182-20-0P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn., reaction with amines, and pharmaceutical fungicidal activity of)
 RN 95182-20-0 HCAPLUS
 CN Carbamic acid, [4-[4-[4-[[2-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-3-methyl-1-piperazinyl]phenyl]-, phenyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



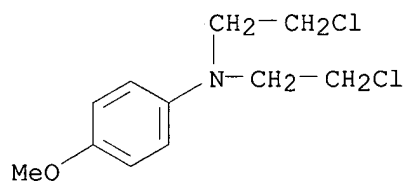
IT 1448-52-8

RL: RCT (Reactant)

(reaction of, with aminophenylimidazolidinone)

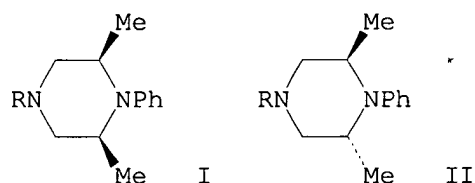
RN 1448-52-8 HCAPLUS

CN Benzenamine, N,N-bis(2-chloroethyl)-4-methoxy- (9CI) (CA INDEX NAME)



=> d 119 bib abs hitstr 14

L19 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2000 ACS
 AN 1982:492233 HCAPLUS
 DN 97:92233
 TI New synthesis of 1-phenyl-2,6-dimethylpiperazine
 AU Fontanella, L.; Mariani, L.; Depaoli, A.
 CS Lab. Ricerca, Gruppo Lepetit S.p.A., Milan, Italy
 SO Farmaco, Ed. Sci. (1982), 37(6), 378-86
 CODEN: FRPSAX; ISSN: 0430-0920
 DT Journal
 LA Italian
 GI



AB Piperazine isomers I (R = H) and II (R = H) were prepd. from PhCH₂N[CH₂CH(OH)Me]₂ (III). Thus, PhCH₂NH₂ reacted with propylene oxide, the III obtained was treated with SOCl₂ to give PhCH₂N(CH₂CHClMe)₂, the latter reacted with PhNH₂ and Na₂CO₃ to yield I (R = PhCH₂) and II (R = PhCH₂), and hydrogenolysis of the products gave I (R = H) and II (R = H).

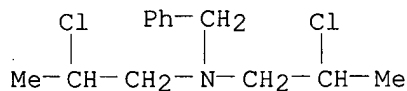
IT **82784-19-8P**

RL: **RCT (Reactant)**; SPN (Synthetic preparation); PREP (Preparation)

(prepn. and cyclocondensation reaction of, with aniline)

RN 82784-19-8 HCAPLUS

CN Benzenemethanamine, N,N-bis(2-chloropropyl)- (9CI) (CA INDEX NAME)



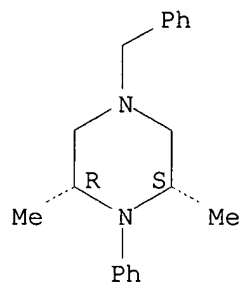
IT **76388-28-8P 76388-39-1P 82776-48-5P.**

RL: **RCT (Reactant)**; SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and hydrogenolysis of)

RN 76388-28-8 HCAPLUS

CN Piperazine, 2,6-dimethyl-1-phenyl-4-(phenylmethyl)-, cis- (9CI) (CA INDEX NAME)

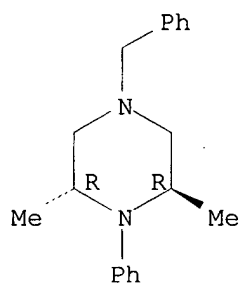
Relative stereochemistry.



RN 76388-39-1 HCAPLUS

CN Piperazine, 2,6-dimethyl-1-phenyl-4-(phenylmethyl)-, trans- (9CI) (CA INDEX NAME)

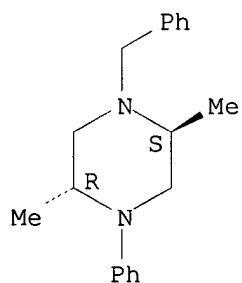
Relative stereochemistry.



RN 82776-48-5 HCAPLUS

CN Piperazine, 2,5-dimethyl-1-phenyl-4-(phenylmethyl)-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 82776-50-9P

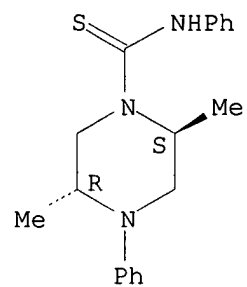
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 82776-50-9 HCAPLUS

CN 1-Piperazinecarbothioamide, 2,5-dimethyl-N,4-diphenyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

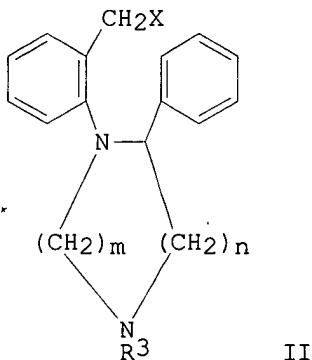
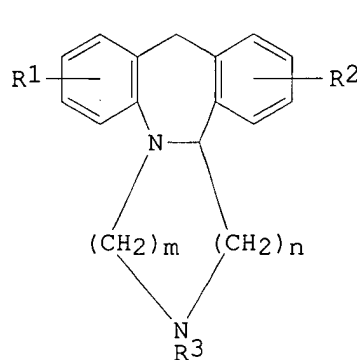
Searched by John Dantzman 703-308-4488



=> d 119 bib abs hitstr 15

L19 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2000 ACS
 AN 1981:30807 HCAPLUS
 DN 94:30807
 TI Synthesis for the preparation of tetracyclic compounds
 IN Olivie, Jacques
 PA Akzona, Inc., USA
 SO U.S., 8 pp. Cont.-in-part of U.S. 4,025,513.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4217452	A	19800812	US 1976-754216	19761227
	NL 7401807	A	19750812	NL 1974-1807	19740209
	NL 179906	B	19860701		
	NL 179906	C	19861201		
	US 4025513	A	19770524	US 1975-547680	19750206
	US 4254031	A	19810303	US 1979-64812	19790808
PRAI	NL 1974-1807		19740209		
	US 1975-547680		19750206		
	US 1976-754216		19761227		
GI					



get of used

AB The title compd. I (R1, R2 = H, HO, halo, C1-4 alkyl or alkoxy, CF3; R3 = H, C1-6 alkyl; m .noteq. m = 1, 2) are prepd. by cyclocondensation reaction of II (X = HO, MeO, Me3SiO, H3SiO, C1-6 alkoxy, C7-10 phenylalkoxy, C5-10 cycloalkoxy or cycloalkylalkoxy, C2-6 alkenyloxy, tetrahydropyranyloxy). Thus, II (R3 = Me; X = HO) was heated with polyphosphoric acid to give 100% I (R1 = R2 = H; R3 = Me; m = 2; n = 1).

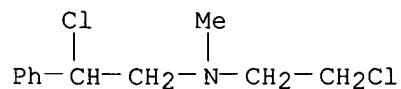
IT 22270-22-0

RL: RCT (Reactant)

(cyclocondensation reaction of, with o-aminobenzyl alc.)

RN 22270-22-0 HCAPLUS

CN Benzeneethanamine, .beta.-chloro-N-(2-chloroethyl)-N-methyl- (9CI) (CA INDEX NAME)



IT 57321-32-1P 76134-70-8P 76134-71-9P

76134-72-0P 76134-73-1P 76134-74-2P

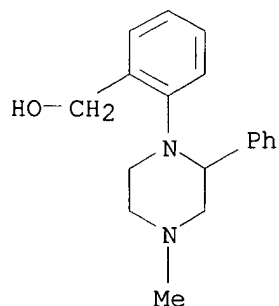
76134-75-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. and cyclocondensation to dibenzo[c,f]pyrazino[1,2-d]azepines)

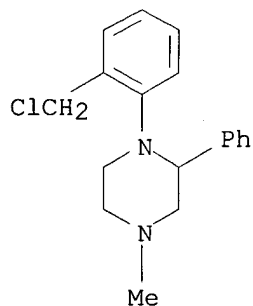
RN 57321-32-1 HCAPLUS

CN Benzenemethanol, 2-(4-methyl-2-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



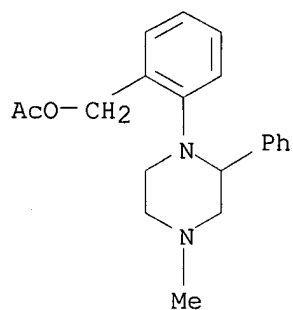
RN 76134-70-8 HCAPLUS

CN Piperazine, 1-[2-(chloromethyl)phenyl]-4-methyl-2-phenyl- (9CI) (CA INDEX NAME)

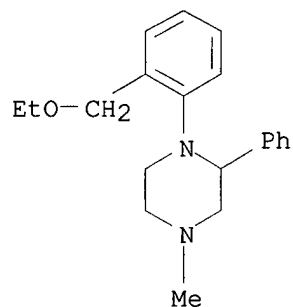


RN 76134-71-9 HCAPLUS

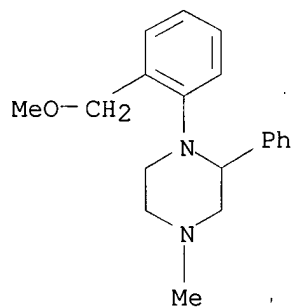
CN Benzenemethanol, 2-(4-methyl-2-phenyl-1-piperazinyl)-, acetate (ester) (9CI) (CA INDEX NAME)



RN 76134-72-0 HCAPLUS
 CN Piperazine, 1-[2-(ethoxymethyl)phenyl]-4-methyl-2-phenyl- (9CI) (CA
 INDEX NAME)



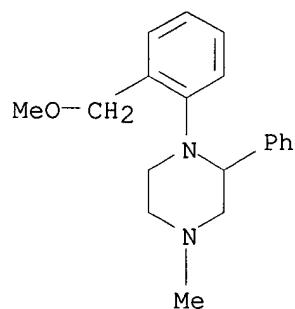
RN 76134-73-1 HCAPLUS
 CN Piperazine, 1-[2-(methoxymethyl)phenyl]-4-methyl-2-phenyl- (9CI) (CA
 INDEX NAME)



RN 76134-74-2 HCAPLUS
 CN Piperazine, 1-[2-(methoxymethyl)phenyl]-4-methyl-2-phenyl-, ethanedioate
 (9CI) (CA INDEX NAME)

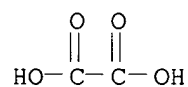
CM 1

CRN 76134-73-1
CMF C19 H24 N2 O

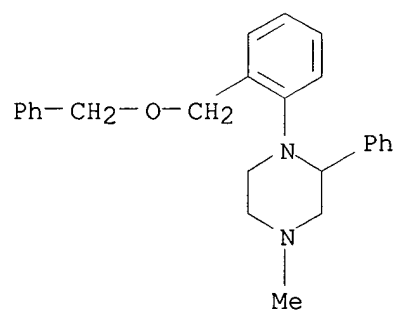


CM 2

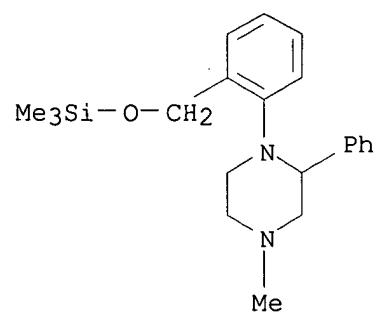
CRN 144-62-7
CMF C2 H2 O4



RN 76134-75-3 HCAPLUS
CN Piperazine, 4-methyl-2-phenyl-1-[2-[(phenylmethoxy)methyl]phenyl]- (9CI)
(CA INDEX NAME)



IT **76134-86-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 76134-86-6 HCAPLUS
CN Piperazine, 4-methyl-2-phenyl-1-[2-[[trimethylsilyl]oxy]methyl]phenyl]-
(9CI) (CA INDEX NAME)

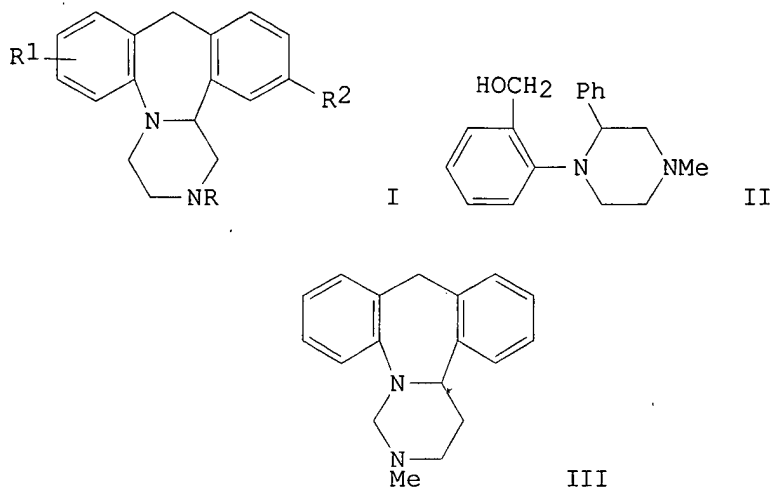


=> d 119 bib abs hitstr 16 *

L19 ANSWER 16 OF 18 HCAPLUS COPYRIGHT 2000 ACS
 AN 1976:121903 HCAPLUS
 DN 84:121903
 TI Tetracyclic compounds
 PA AKZO N. V., Neth.
 SO Neth. Appl., 23 pp.
 CODEN: NAXXAN
 DT Patent
 LA Dutch
 FAN.CNT 3

*Similar
to ANS-15*

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	NL 7401807	A	19750812	NL 1974-1807	19740209
	NL 179906	B	19860701		
	NL 179906	C	19861201		
	GB 1498632	A	19780125	GB 1975-3670	19750128
	GB 1498633	A	19780125	GB 1976-39732	19750128
	DK 7500323	A	19750929	DK 1975-323	19750130
	DK 150144	B	19861215		
	DK 150144	C	19871019		
	FI 7500327	A	19750810	FI 1975-327	19750206
	FI 57106	B	19800229		
	FI 57106	C	19800610		
	US 4025513	A	19770524	US 1975-547680	19750206
	CH 613705	A	19791015	CH 1975-1438	19750206
	SE 7501365	A	19750811	SE 1975-1365	19750207
	SE 418745	B	19810622		
	SE 418745	C	19811001		
	DE 2505239	A1	19750814	DE 1975-2505239	19750207
	DE 2505239	C2	19881103		
	JP 50108299	A2	19750826	JP 1975-16156	19750207
	FR 2260579	A1	19750905	FR 1975-3954	19750207
	HU 169018	P	19760928	HU 1975-A0404	19750207
	ES 434533	A1	19761201	ES 1975-434533	19750207
	CA 1084490	A1	19800826	CA 1975-219742	19750210
	US 4217452	A	19800812	US 1976-754216	19761227
	US 4254031	A	19810303	US 1979-64812	19790808
PRAI	NL 1974-1807		19740209		
	GB 1975-3670		19750128		
	US 1975-547680		19750206		
	US 1976-754216		19761227		
GI					



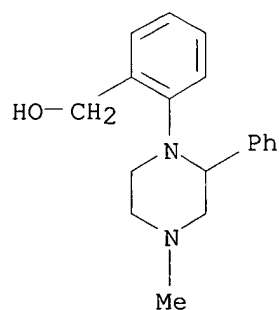
AB Dibenzopyrazinoazepines I (R = Me, R1 = H, 8-Cl, 8-OMe, 7-Me, 8-OH, 8-Br, R2 = H; R = Me, R1 = H, R2 = Me, Cl; R = Pr, cyclopropylmethyl, CH₂CH₂NMe₂) were prepd. Thus MeNHCH₂CH₂OH was treated with styrene oxide, HOCH₂CH₂NMeCH₂CHPhOH chlorinated, ClCH₂CH₂NMeCH₂CHPhCl cyclized with 2-H₂NC₆H₄CH₂OH, and piperazine II cyclized with polyphosphoric acid to I (R = Me, R1 = R2 = H). The dibenzopyrimidinoazepine III was similarly prepd.

IT **57321-32-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and cyclization of)

RN 57321-32-1 HCAPLUS

CN Benzenemethanol, 2-(4-methyl-2-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



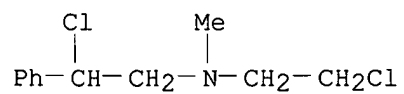
IT **22270-22-0P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction of, with aminobenzyl alc.)

RN 22270-22-0 HCAPLUS

CN Benzeneethanamine, .beta.-chloro-N-(2-chloroethyl)-N-methyl- (9CI) (CA INDEX NAME)

Searched by John Dantzman 703-308-4488



=> d 119 bib abs hitstr 17

L19 ANSWER 17 OF 18 HCAPLUS COPYRIGHT 2000 ACS

AN 1975:593392 HCAPLUS

DN 83:193392

TI Tetracyclic compounds

IN Olivie, Jacques

PA AKZO N. V., Neth.

SO Ger. Offen., 26 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2505239	A1	19750814	DE 1975-2505239	19750207
	DE 2505239	C2	19881103		
	NL 7401807	A	19750812	NL 1974-1807	19740209
	NL 179906	B	19860701		
	NL 179906	C	19861201		
PRAI	NL 1974-1807		19740209		

GI For diagram(s), see printed CA Issue.

AB Serotonin antagonists, antihistaminic, and antidepressant (no data) condensed dibenzazepines I (R = Me, R1 = H, 8-Cl, 8-OMe, 7-Me, 8-OH,

8-Br,

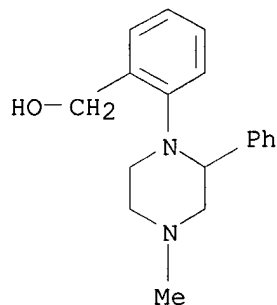
13-Me, 13-Cl, 11-OMe, 13-OMe, 12-Cl; R = H, Et, Pr, cyclopropylmethyl, Me2NCH2CH2, 2-(2-pyridyl)ethyl, R1 = H) and II (R = Me, R1 = H, CF3; R = H, Et, R1 = H) were prepd. Thus, MeNHCH2CH2OH was treated with styrene oxide, HOCHPhCH2NMeCH2CH2OH chlorinated, PhCHClCH2NMeCH2CH2Cl condensed with 2-H2NC6H4CH2OH, and III cyclized with polyphosphoric acid to give I (R = Me, R1 = H).

IT 57321-32-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and cyclization of)

RN 57321-32-1 HCAPLUS

CN Benzenemethanol, 2-(4-methyl-2-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



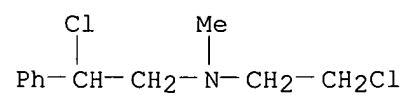
IT 22270-22-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

(prepn. and reaction of, with 2-aminobenzyl alc.)

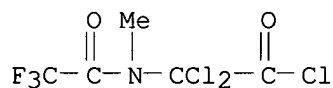
Searched by John Dantzman 703-308-4488

RN 22270-22-0 HCAPLUS

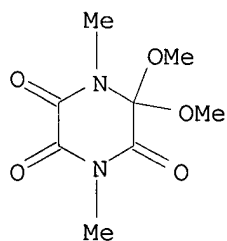
CN Benzeneethanamine, .beta.-chloro-N-(2-chloroethyl)-N-methyl- (9CI) (CA
INDEX NAME)

=> d 119 bib abs hitstr 18

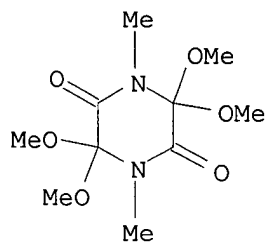
L19 ANSWER 18 OF 18 HCAPLUS COPYRIGHT 2000 ACS
 AN 1972:565055 HCAPLUS
 DN 77:165055
 TI Synthesis and reactions of a tetrachlorodioxopiperazine
 AU Ottenheym, H. C. J.; Spande, T. F.; Witkop, B.
 CS Natl. Inst. Arthritis Metab. Dis., Natl. Inst. Health, Bethesda, Md., USA
 SO J. Org. Chem. (1972), 37(21), 3358-60
 CODEN: JOCEAH
 DT Journal
 LA English
 AB N-Tri-fluoroacetyl-.alpha.,.alpha.-dichlorosarcosyl chloride, prepd. by reaction of N-trifluoroacetylsarcosine, first with SOCl₂, then with SO₂Cl₂, on standing forms 2,2,5,5-tetrachlorosarcosine anhydride, easily convertible by methanolysis to 2,2-dimethoxy-5-oxo- and 2,2,5,5-tetramethoxysarcosine anhydride, or by hydrolysis to 2,3,5,6-tetraoxo-1,4-dimethylpiperazine.
 IT 35191-65-2
 RL: RCT (Reactant)
 (decompn. of, cyclodimerization in)
 RN 35191-65-2 HCAPLUS
 CN Acetyl chloride, dichloro[methyl(trifluoroacetyl)amino]- (9CI) (CA INDEX NAME)



IT 35141-12-9P 35141-13-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 35141-12-9 HCAPLUS
 CN Piperazinetrione, 6,6-dimethoxy-1,4-dimethyl- (9CI) (CA INDEX NAME)



RN 35141-13-0 HCAPLUS
 CN 2,5-Piperazinedione, 3,3,6,6-tetramethoxy-1,4-dimethyl- (9CI) (CA INDEX NAME)



=> d his

(FILE 'REGISTRY' ENTERED AT 06:28:32 ON 21 JUN 2000)

DEL HIS
ACT BERNPCT094/A

L1 STR
L2 3 SEA FILE=REGISTRY SSS SAM L1

L3 STR L1
L4 3 S L3
L5 618 S L3 FUL
L6 STR L3
L7 STR L6
L8 0 S L7
L9 7 S L7 SSS SAM SUB=L5
L10 166 S L7 SSS FUL SUB=L5

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L11 100 S L10

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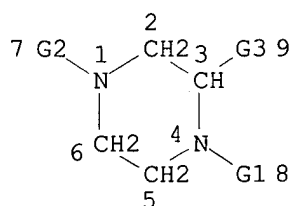
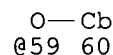
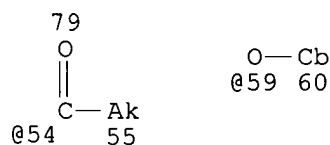
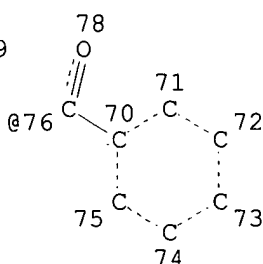
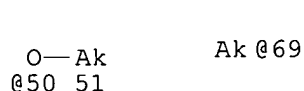
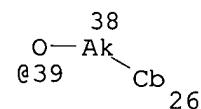
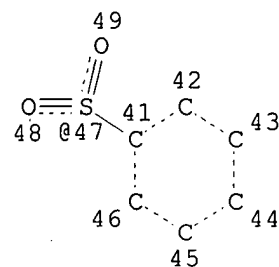
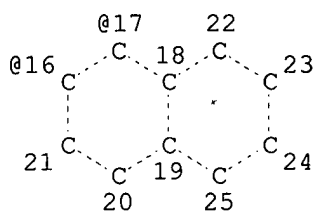
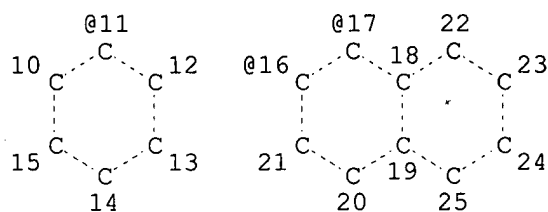
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← 33 compounds

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L15 49 S L14

← 49 utts

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SAV L14 BERNPCT094B/A



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VAR G2=69/50/11/16/17/59/39

VAR G3=69/50/11/16/17/59/39

NODE ATTRIBUTES:

CONNECT IS E3 RC AT 1

CONNECT IS E3 RC AT 4

CONNECT IS E2 RC AT 38

CONNECT IS E1 RC AT 51

CONNECT IS E1 RC AT 55

CONNECT IS E1 RC AT 69

DEFAULT MLEVEL IS ATOM

GGCAT IS UNS AT 26

GGCAT IS UNS AT 60

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 53

STEREO ATTRIBUTES: NONE

L14 33 SEA FILE=REGISTRY SUB=L5 CSS FUL L12

=> d bib abs hitstr

L15 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2000 ACS

AN 1998:603137 CAPLUS

DN 129:221194

TI Curative medicine for disease caused by infection of Helicobacter

IN Yamashita, Katsuji; Yamane, Takehiko; Sakashita, Shinichi; Saka, Yasuhiro;

Hosoe, Kazunori; Fujii, Kenji

PA Kaneka Corp., Japan

SO Eur. Pat. Appl., 39 pp.

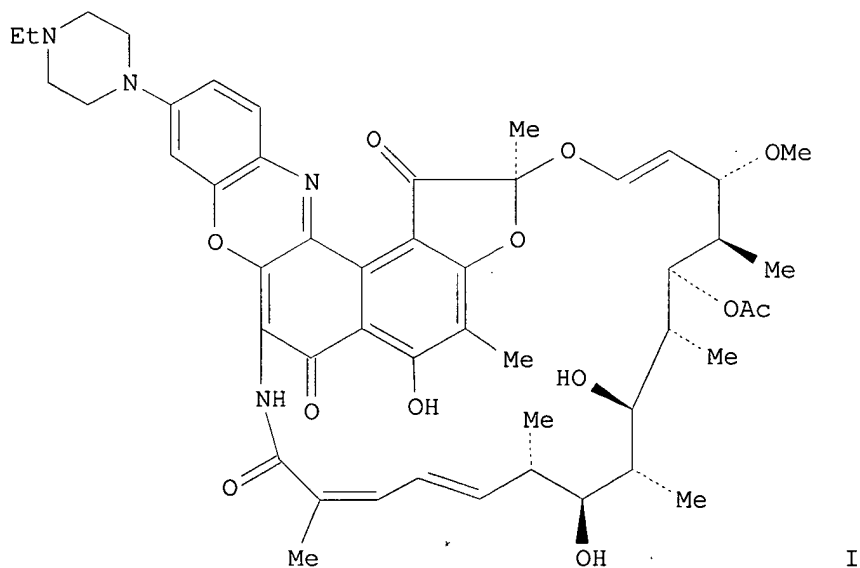
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 861660	A1	19980902	EP 1998-103481	19980227
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 10298080	A2	19981110	JP 1998-38590	19980220
	CA 2230649	AA	19980828	CA 1998-2230649	19980227
PRAI	JP 1997-46753		19970228		
OS	MARPAT 129:221194				
GI					



AB A curative medicine for a digestive organ disease caused by the infection of Helicobacter, comprises a rifamycin deriv. Pharmaceutical formulations

are described and antibacterial activity of 55 derivs. are given. Also prepn. of the derivs. are described, e.g., prepn. of I from benzoxazinorifamycin and N-ethylpiperazine.

Searched by John Dantzman 703-308-4488

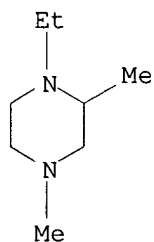
IT 51253-74-8 212307-33-0

RL: RCT (Reactant)

(piperazino rifamycin derivs. for treatment of Helicobacter infection)

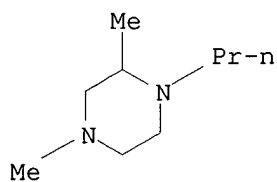
RN 51253-74-8 CAPLUS

CN Piperazine, 1-ethyl-2,4-dimethyl- (9CI) (CA INDEX NAME)



RN 212307-33-0 CAPLUS

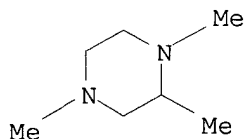
CN Piperazine, 2,4-dimethyl-1-propyl- (9CI) (CA INDEX NAME)



=> d bib abs hitstr 2

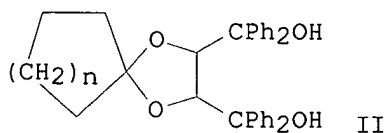
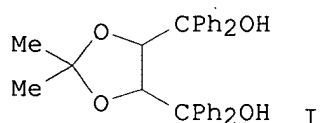
L15 ANSWER 2 OF 49 CAPLUS COPYRIGHT 2000 ACS
AN 1994:643920 CAPLUS
DN 121:243920
TI Low-viscosity magnetorheological materials
IN Weiss, Keith D.; Carlson, J. David; Duclos, Theodore G.
PA Lord Corp., USA
SO PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9410692	A1	19940511	WO 1993-US9735	19931012
	W: BY, CA, JP, KZ, LV, RU, UA, UZ				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2147990	AA	19940511	CA 1993-2147990	19931012
	EP 672293	A1	19950920	EP 1993-923848	19931012
	R: DE, FR, GB, IE, IT, LU, MC, NL, SE				
	JP 08502780	T2	19960326	JP 1993-511091	19931012
	CN 1088019	A	19940615	CN 1993-120703	19931030
PRAI	US 1992-968735		19921030		
	WO 1993-US9735		19931012		
AB	A magnetorheol. material contg. a particle component and a carrier fluid has a change in viscosity with temp. (.DELTA..eta./.DELTA.T ratio) .ltoreq.9.0 cP/.degree. at 25.degree. to -40.degree.. The magnetorheol. material exhibits a substantial magnetorheol. effect with a minimal variation in mech. properties with respect to changes in temp. The magnetorheol. material is advantageous in that it provides for the design of devices that are smaller, more efficient, and consume less power.				
IT	120-85-4 , 1,2,4-Trimethylpiperazine				
	RL: USES (Uses)				
	(magnetorheol. material contg., low-viscosity)				
RN	120-85-4 CAPLUS				
CN	Piperazine, 1,2,4-trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)				



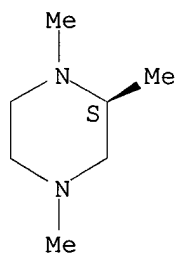
=> d bib abs hitstr 3

L15 ANSWER 3 OF 49 CAPLUS COPYRIGHT 2000 ACS
AN 1993:101286 CAPLUS
DN 118:101286
TI Optically active trans-bis(hydroxydiphenylmethyl)-2,2-dimethyl-1,3-dioxacyclopentane and its derivatives as chiral shift reagents for the determination of enantiomeric purity and absolute configuration
AU Tanaka, Koichi; Ootani, Minoru; Toda, Fumio
CS Fac. Eng., Ehime Univ., Matsuyama, 790, Japan
SO Tetrahedron: Asymmetry (1992), 3(6), 709-12
CODEN: TASYE3; ISSN: 0957-4166
DT Journal
LA English
GI



AB Title compds. I and II (n = 1, 2) were useful as chiral shift reagents for the detn. of enantiomeric purity and abs. configuration of amines, cyanohydrins, and amino acid esters.
IT 75336-96-8 131065-35-5
RL: PRP (Properties)
(NMR of, in presence of dioxolanedimethanol deriv. as chiral shift reagent)
RN 75336-96-8 CAPLUS
CN Piperazine, 1,2,4-trimethyl-, (S)- (9CI) (CA INDEX NAME)

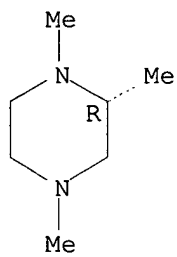
Absolute stereochemistry.



Cum

RN 131065-35-5 CAPLUS
CN Piperazine, 1,2,4-trimethyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d bib hitstr 4-30

L15 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2000 ACS

AN 1992:633579 CAPLUS

DN 117:233579

TI Optically active biphenyl derivatives and their use in resolution of organic compounds

IN Toda, Fumio

PA Daicel Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04193842	A2	19920713	JP 1990-293412	19901029
	JP 2872800	B2	19990324		
	US 5202504	A	19930413	US 1991-646096	19910125
	US 5276214	A	19940104	US 1992-993116	19921218

PRAI JP 1990-293412 19901029

US 1991-646096 19910125

OS MARPAT 117:233579

IT **131022-13-4**

RL: PRP (Properties)

(chem. shift of, in presence of optically active

tetrachlorobis(hydroxydiphenylmethyl)biphenyl as chiral shift agent)

RN 131022-13-4 CAPLUS

L15 ANSWER 5 OF 49 CAPLUS COPYRIGHT 2000 ACS

AN 1991:491745 CAPLUS

DN 115:91745

TI Chiral ligands containing heteroatoms. 7. An investigation on the stereochemistry of the ketone reductions by chiral diamines/tin hydride systems

AU Falorni, Massimo; Giacomelli, Giampaolo; Marchetti, Mauro; Culeddu, Nicola; Lardicci, Luciano

CS Dip. Chim., Univ. Sassari, Sassari, I-07100, Italy

SO Tetrahedron: Asymmetry (1991), 2(4), 287-98

CODEN: TASYE3; ISSN: 0957-4166

DT Journal

LA English

OS CASREACT 115:91745

IT **126839-93-8P**

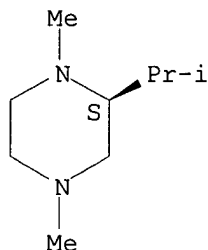
RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. and complexation with tin dichloride, for enantioselective redn. of ketones)

RN 126839-93-8 CAPLUS

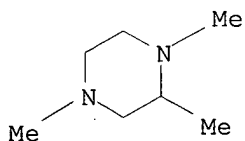
CN Piperazine, 1,4-dimethyl-2-(1-methylethyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L15 ANSWER 6 OF 49 CAPLUS COPYRIGHT 2000 ACS
 AN 1991:228951 CAPLUS
 DN 114:228951
 TI Preparation of 1,2,5-trimethylpiperazine as catalyst for polyurethane foam manufacture
 IN Arakawa, Tatsuya; Kagawa, Hisashi
 PA Kawaken Fine Chemical Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02218669	A2	19900831	JP 1989-40999	19890221
IT	120-85-4P , 1,2,4-Trimethylpiperazine				
	RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as catalyst for polyurethane foam manuf.)				
RN	120-85-4 CAPLUS				
CN	Piperazine, 1,2,4-trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)				



L15 ANSWER 7 OF 49 CAPLUS COPYRIGHT 2000 ACS
 AN 1991:163628 CAPLUS
 DN 114:163628
 TI Chiral ligands containing heteroatoms. V. Enantioselective ketone reduction using chiral diamines-metal hydride systems
 AU Falorni, Massimo; Giacomelli, Giampaolo; Lardicci, Luciano
 CS Dip. Chim., Univ. Sassari, Sassari, I-07100, Italy
 SO Gazz. Chim. Ital. (1990), 120(12), 765-9
 CODEN: GCITA9; ISSN: 0016-5603
 DT Journal
 LA English
 OS CASREACT 114:163628
 IT **126839-93-8P**

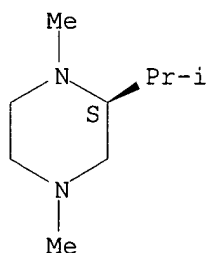
Searched by John Dantzman 703-308-4488

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as chiral reducing agent with zinc chloride and
diisobutylaluminum hydride)

RN 126839-93-8 CAPLUS

CN Piperazine, 1,4-dimethyl-2-(1-methylethyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L15 ANSWER 8 OF 49 CAPLUS COPYRIGHT 2000 ACS

AN 1991:23472 CAPLUS

DN 114:23472

TI Optically active

4,4',6,6'-tetrachloro-2,2'-bis(hydroxydiphenylmethyl)biphenyl as a host for optical resolution and a chiral shift reagent

AU Toda, Fumio; Toyotaka, Ritsuji; Fukuda, Hideji

CS Fac. Eng., Ehime Univ., Matsuyama, 790, Japan

SO Tetrahedron: Asymmetry (1990), 1(5), 303-6

CODEN: TASYE3; ISSN: 0957-4166

DT Journal

LA English

IT **131022-13-4**

RL: PROC (Process)

(resoln. of, by complexation with
tetrachlorobis(hydroxydiphenylmethyl)
biphenyl)

RN 131022-13-4 CAPLUS

IT **75336-96-8 131065-35-5**

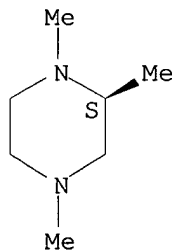
RL: PROC (Process)

(sepn. of, from enantiomer, by complexation with
tetrachlorobis(diphenylhydroxymethyl)biphenyl)

RN 75336-96-8 CAPLUS

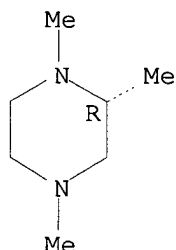
CN Piperazine, 1,2,4-trimethyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

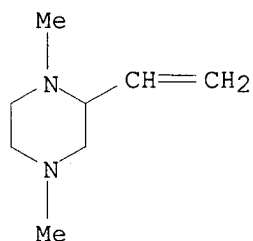


RN 131065-35-5 CAPLUS
CN Piperazine, 1,2,4-trimethyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



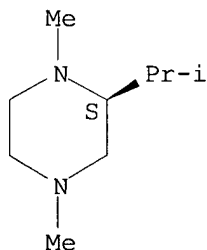
L15 ANSWER 9 OF 49 CAPLUS COPYRIGHT 2000 ACS
AN 1990:216868 CAPLUS
DN 112:216868
TI Palladium(0)-catalyzed reaction of (Z)-2-butene-1,4-diyl bis(methyl carbonate) and (Z)-2-butene-1,4-diyl diacetate with bifunctional nitrogen nucleophiles
AU Tsuda, Tetsuo; Kiyoi, Takao; Saegusa, Takeo
CS Fac. Eng., Kyoto Univ., Kyoto, 606, Japan
SO J. Org. Chem. (1990), 55(10), 3388-90
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
OS CASREACT 112:216868
IT **126544-39-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 126544-39-6 CAPLUS
CN Piperazine, 2-ethenyl-1,4-dimethyl- (9CI) (CA INDEX NAME)



L15 ANSWER 10 OF 49 CAPLUS COPYRIGHT 2000 ACS
AN 1990:197719 CAPLUS
DN 112:197719
TI Chiral ligands containing heteroatoms. IV. Temperature dependence of enantioselectivity in a tin(II) hydride reduction of ketones
AU Falorni, Massimo; Lardicci, Luciano; Piroddi, Anna; Giacomelli, Giampaolo
CS Dip. Chim. Chim. Ind., Univ. Pisa, Pisa, I-56126, Italy
Searched by John Dantzman 703-308-4488

SO Gazz. Chim. Ital. (1989), 119(9), 511-12
CODEN: GCITA9; ISSN: 0016-5603
DT Journal
LA English
OS CASREACT 112:197719
IT **126839-93-8**
RL: RCT (Reactant)
(ligand, with tin for enantioselective redn. of ketones)
RN 126839-93-8 CAPLUS
CN Piperazine, 1,4-dimethyl-2-(1-methylethyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L15 ANSWER 11 OF 49 CAPLUS COPYRIGHT 2000 ACS
AN 1990:58737 CAPLUS
DN 112:58737
TI Process and catalysts for the manufacture of amines
IN Olson, Kurt Damar; Kaiser, Steven William; Reichle, Walter Thoams;
Doumaux, Arthur Roy, Jr.; Schreck, David James; McCain, James Herndon
PA Union Carbide Corp., USA
SO PCT Int. Appl., 259 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

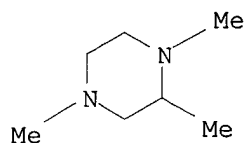
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 8905810	A1	19890629	WO 1988-US4454	19881216
	W: JP				
	RW: BE, DE, FR, GB, IT, NL, SE				
	US 4973709	A	19901127	US 1987-134815	19871218
	EP 345330	A1	19891213	EP 1989-900779	19881216
	R: BE, DE, FR, GB, IT, NL, SE				
	JP 02502541	T2	19900816	JP 1989-500651	19881216
	JP 03127764	A2	19910530	JP 1989-262300	19891009
PRAI	US 1987-134815		19871218		
	US 1988-282371		19881213		
	WO 1988-US4454		19881216		

IT **120-85-4P**

RL: PREP (Preparation)
(manuf. of amines and, catalysts for)

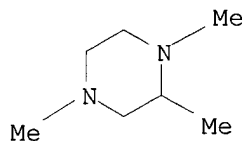
RN 120-85-4 CAPLUS

CN Piperazine, 1,2,4-trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



L15 ANSWER 12 OF 49 CAPLUS COPYRIGHT 2000 ACS
 AN 1989:498603 CAPLUS
 DN 111:98603
 TI Metabolically acceptable polyisocyanate adhesives and their surgical uses
 IN Fuller, William D.; Blair, Robert K.; Goodman, Murray
 PA BioResearch, Inc., USA
 SO PCT Int. Appl., 78 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 8900589	A1	19890126	WO 1988-US2399	19880715
	W: AU, JP				
	RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
	US 4829099	A	19890509	US 1987-74597	19870717
	AU 8821317	A1	19890213	AU 1988-21317	19880715
	AU 601351	B2	19900906		
	EP 328585	A1	19890823	EP 1988-906631	19880715
	EP 328585	B1	19940907		
	R: DE, FR, GB, IT				
	JP 02500815	T2	19900322	JP 1988-506445	19880715
	ES 2018635	A6	19910416	ES 1988-2297	19880717
PRAI	US 1987-74597		19870717		
	WO 1988-US2399		19880715		
IT	120-85-4, 1,2,4-Trimethylpiperazine				
	RL: CAT (Catalyst use); USES (Uses)				
	(catalysts, polyisocyanate-based adhesives contg., for living tissue and surgical use)				
RN	120-85-4 CAPLUS				
CN	Piperazine, 1,2,4-trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)				



L15 ANSWER 13 OF 49 CAPLUS COPYRIGHT 2000 ACS
 AN 1988:509996 CAPLUS
 DN 109:109996
 TI Crystalline complex compounds of propargylic alcohols with tertiary diamines, and a process for separation and purification of propargylic alcohols using them
 IN Toda, Fumio; Tanaka, Kōichi; Ataka, Kikuo
 Searched by John Dantzman 703-308-4488

PA Ube Industries, Ltd., Japan

SO Eur. Pat. Appl., 9 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 256745	A2	19880224	EP 1987-306879	19870804
	EP 256745	A3	19890906		
	EP 256745	B1	19920513		
	R: CH, DE, LI				
	US 4918190	A	19900417	US 1987-79821	19870730
	JP 63152336	A2	19880624	JP 1987-195327	19870806
	JP 07103053	B4	19951108		
	US 5043495	A	19910827	US 1990-475892	19900130
	JP 08092172	A2	19960409	JP 1995-28043	19950216
	JP 2573818	B2	19970122		
PRAI	JP 1986-183347	19860806			
	US 1987-79821	19870730			

OS MARPAT 109:109996

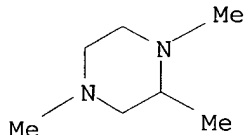
IT **120-85-4**

RL: RCT (Reactant)

(complexation of, with propargylic alcs.)

RN 120-85-4 CAPLUS

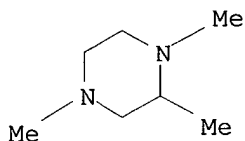
CN Piperazine, 1,2,4-trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

IT **120-85-4DP**, 2-Methyl-N,N'-dimethylpiperazine, complexes with propargylic alcs.

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and hydrolysis of)

RN 120-85-4 CAPLUS

CN Piperazine, 1,2,4-trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



L15 ANSWER 14 OF 49 CAPLUS COPYRIGHT 2000 ACS

AN 1987:451381 CAPLUS

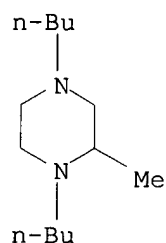
DN 107:51381

TI C-Alkylpiperazines. XII. Synthesis and diuretic activity of compounds structurally related to clopamide

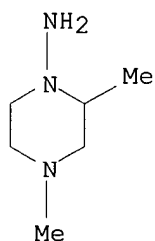
AU Landriani, L.; Barlocco, D.; Cignarella, G.; Curzu, M. M.; Anania, V.;

Searched by John Dantzman 703-308-4488

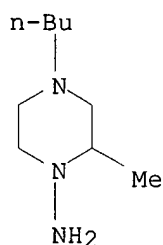
Desole, M. S.
CS Ist. Chim. Farm. Tossicol., Univ. Milano, Milan, Italy
SO Farmaco, Ed. Sci. (1987), 42(3), 191-204
CODEN: FRPSAX; ISSN: 0430-0920
DT Journal
LA Italian
IT **109055-58-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction of, with nitrite)
RN 109055-58-5 CAPLUS
CN Piperazine, 1,4-dibutyl-2-methyl- (9CI) (CA INDEX NAME)



IT **109055-75-6P 109055-76-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 109055-75-6 CAPLUS
CN 1-Piperazinamine, 2,4-dimethyl- (9CI) (CA INDEX NAME)



RN 109055-76-7 CAPLUS
CN 1-Piperazinamine, 4-butyl-2-methyl- (9CI) (CA INDEX NAME)



L15 ANSWER 15 OF 49 CAPLUS COPYRIGHT 2000 ACS

AN 1985:569926 CAPLUS

DN 103:169926

TI Lithographic plate water developable photoimaging composition

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60093432	A2	19850525	JP 1983-200036	19831027

IT 98673-93-9

RL: USES (Uses)

(photoimaging compn. contg., water-developable, for lithog. plate
prepn.)

RN 98673-93-9 CAPLUS

CN 2-Propenoic acid, 2-hydroxyethyl ester, polymer with 2,4-diisocyanato-1-methylbenzene and (2-methyl-1,4-piperazinediyl)bis[methylethanol] (9CI)
(CA INDEX NAME)

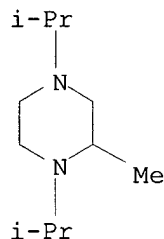
CM 1

CRN 84886-94-2

CMF C11 H24 N2 O2

CCI IDS

CDES *

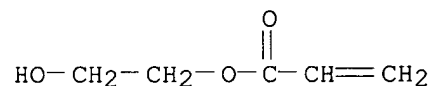


2 (D1-OH)

CM 2

CRN 818-61-1

CMF C5 H8 O3

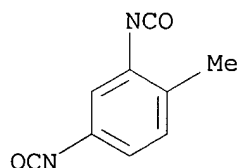


Searched by John Dantzman 703-308-4488

CM 3

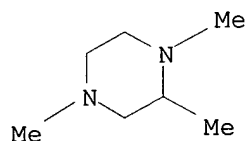
CRN 584-84-9

CMF C9 H6 N2 O2



L15 ANSWER 16 OF 49 CAPLUS COPYRIGHT 2000 ACS
AN 1985:407347 CAPLUS
DN 103:7347
TI Stabilization of the B-side of polyurethane foam-producing compositions
IN Kennedy, Richard B.
PA Fricke, Richard J., USA; Crehan, Patrick J.
SO U.S., 5 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	US 4515638	A	19850507	US 1984-634786	19840726
IT	120-85-4				
	RL: CAT (Catalyst use); USES (Uses) (catalysts, storage-stable polyol compns. contg., for polyurethane manuf.)				
RN	120-85-4 CAPLUS				
CN	Piperazine, 1,2,4-trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)				

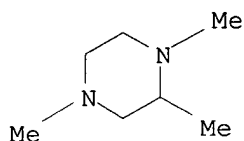


L15 ANSWER 17 OF 49 CAPLUS COPYRIGHT 2000 ACS
AN 1985:96223 CAPLUS
DN 102:96223
TI Enhancing stereospecificity of a catalyst system
IN Triplett, Kelly B.
PA Stauffer Chemical Co. , USA
SO U.S., 9 pp.
CODEN: USXXAM
DT Patent
LA English

Searched by John Dantzman 703-308-4488

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4487845	A	19841211	US 1980-148336	19800509
IT	120-85-4				
	RL: CAT (Catalyst use); USES (Uses) (catalysts contg., with improved stereospecificity, for polymn. of olefins)				
RN	120-85-4	CAPLUS			
CN	Piperazine, 1,2,4-trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)				



L15 ANSWER 18 OF 49 CAPLUS COPYRIGHT 2000 ACS

AN 1983:546147 CAPLUS

DN 99:146147

TI Polyurethanes for hemodialysis membranes

IN Wick, Gerhard

PA AKZO G.m.b.H. , Fed. Rep. Ger.

SO Ger. Offen., 20 pp.

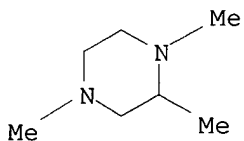
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3147025	A1	19830601	DE 1981-3147025	19811127
	US 4433128	A	19840221	US 1982-443739	19821122
	JP 58093716	A2	19830603	JP 1982-204704	19821124
	JP 03028449	B4	19910419		
PRAI	DE 1981-3147025		19811127		
IT	120-85-4				
	RL: CAT (Catalyst use); USES (Uses) (polymn. catalyst, in polyurethane prepn., for hemodialysis membranes)				
RN	120-85-4	CAPLUS			
CN	Piperazine, 1,2,4-trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)				



L15 ANSWER 19 OF 49 CAPLUS COPYRIGHT 2000 ACS

AN 1983:127816 CAPLUS

DN 98:127816

TI Thermosetting polyurethane coating compositions

Searched by John Dantzman 703-308-4488

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 57145161	A2	19820908	JP 1981-29409	19810303
	JP 63049690	B4	19881005		

IT **84886-95-3**RL: TEM (Technical or engineered material use); USES (Uses)
(coatings, with low baking temp.)

RN 84886-95-3 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with butyl
2-propenoate, 1,6-diisocyanatohexane, (2-methyl-1,4-
piperazinediyl)bis[methylethanol] and oxiranylmethyl
2-methyl-2-propenoate
(9CI) (CA INDEX NAME)

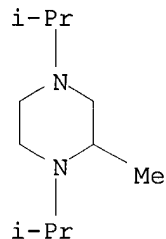
CM 1

CRN 84886-94-2

CMF C11 H24 N2 O2

CCI IDS

CDES *

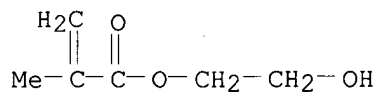


2 (D1-OH)

CM 2

CRN 868-77-9

CMF C6 H10 O3



CM 3

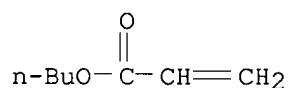
Searched by John Dantzman 703-308-4488

CRN 822-06-0
CMF C8 H12 N2 O2

OCN- (CH₂)₆-NCO

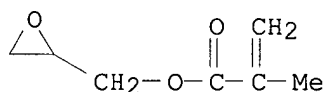
CM 4

CRN 141-32-2
CMF C7 H12 O2



CM 5

CRN 106-91-2
CMF C7 H10 O3



L15 ANSWER 20 OF 49 CAPLUS COPYRIGHT 2000 ACS

AN 1982:400292 CAPLUS

DN 97:292

TI Presynaptic .alpha.-block and inhibition of noradrenaline and
5-hydroxytryptamine reuptake by a series of compounds related to
mianserin

AU Nickolson, Victor J.; Wieringa, Joop H.

CS Org. Sci. Dev. Group, Oss, Neth.

SO J. Pharm. Pharmacol. (1981), 33(12), 760-6

CODEN: JPPMAB; ISSN: 0022-3573

DT Journal

LA English

IT 23174-96-1

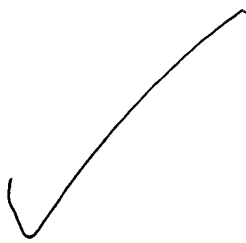
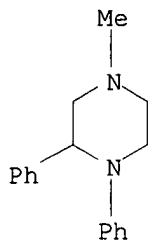
RL: BIOL (Biological study)

(hydroxytryptamine and noradrenaline reuptake by brain inhibition and
presynaptic .alpha.-adrenoceptor blockade by, structure in relation

to)

RN 23174-96-1 CAPLUS

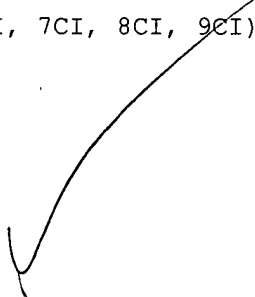
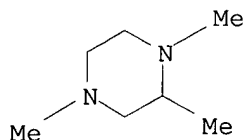
CN Piperazine, 4-methyl-1,2-diphenyl- (8CI, 9CI) (CA INDEX NAME)



L15 ANSWER 21 OF 49 CAPLUS COPYRIGHT 2000 ACS
 AN 1982:36432 CAPLUS
 DN 96:36432
 TI Semiflexible polyurethane cellular foams of improved damping characteristics
 IN McBrayer, Robert Lewis
 PA BASF Wyandotte Corp., USA
 SO Brit. UK Pat. Appl., 7 pp.
 CODEN: BAXXDU
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2063894	A	19810610	GB 1980-33142	19801014
	CA 1147900	A1	19830607	CA 1980-359988	19800910
PRAI	US 1979-84788		19791015		
IT	120-85-4				

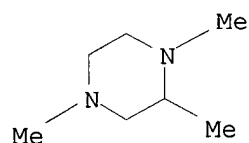
RL: CAT (Catalyst use); USES (Uses)
 (catalysts, for manuf. of polyurethane foams, with improved damping properties)
 RN 120-85-4 CAPLUS
 CN Piperazine, 1,2,4-trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



L15 ANSWER 22 OF 49 CAPLUS COPYRIGHT 2000 ACS
 AN 1981:66444 CAPLUS
 DN 94:66444
 TI Latent Lewis acid catalyst system
 IN Newell, Richard G.
 PA Minnesota Mining and Mfg. Co., USA
 SO U.S., 12 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

Searched by John Dantzman 703-308-4488

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4225460	A	19800930	US 1979-53056	19790628
	FR 2460157	A1	19810123	FR 1980-14233	19800626
	FR 2460157	B1	19830218		
	ES 492807	A1	19810416	ES 1980-492807	19800626
	DE 3024264	A1	19810108	DE 1980-3024264	19800627
	DE 3024264	C2	19931111		
	AU 8059711	A1	19810108	AU 1980-59711	19800627
	AU 530938	B2	19830804		
	JP 56010525	A2	19810203	JP 1980-87703	19800627
	JP 63033488	B4	19880705		
	GB 2054514	A	19810218	GB 1980-21081	19800627
	GB 2054514	B2	19830505		
	BR 8004031	A	19810310	BR 1980-4031	19800627
	ZA 8003882	A	19810930	ZA 1980-3882	19800627
	CA 1136598	A1	19821130	CA 1980-355011	19800627
PRAI	US 1979-53056		19790628		
IT	120-85-4				
	RL: USES (Uses)				
	(scavengers, for excess Lewis acid catalysts for epoxy resin manuf.)				
RN	120-85-4 CAPLUS				
CN	Piperazine, 1,2,4-trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)				

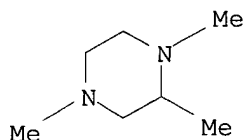


L15 ANSWER 23 OF 49 CAPLUS COPYRIGHT 2000 ACS
 AN 1981:48042 CAPLUS
 DN 94:48042
 TI Stereoregular polymerization of .alpha.-olefins
 IN Giannini, Umberto; Cassata, Antonio; Longi, Paolo; Mazzocchi, Romano
 PA Montedison S.p.A., Italy
 SO U.S., 10 pp. Cont.-in-part of U.S. Ser. No. 845,945, abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4226963	A	19801007	US 1978-959604	19781113
	US 4156063	A	19790522	US 1977-845947	19771027
PRAI	IT 1971-26275		19710625		
	US 1972-265438		19720623		
	US 1972-265503		19720623		
	US 1974-503765		19740906		
	US 1974-503963		19740916		
	US 1975-593991		19750708		
	US 1975-599412		19750728		
	US 1977-845945		19771027		
	US 1977-853749		19771121		

Searched by John Dantzman 703-308-4488

US 1972-265455 19720623
US 1974-503766 19740906
US 1975-593992 19750708
IT **120-85-4**
RL: CAT (Catalyst use); USES (Uses)
(catalysts, for stereospecific polymn. of propylene)
RN 120-85-4 CAPLUS
CN Piperazine, 1,2,4-trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

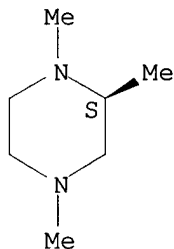


L15 ANSWER 24 OF 49 CAPLUS COPYRIGHT 2000 ACS
AN 1980:603904 CAPLUS
DN 93:203904
TI The absolute configurations of (+)- and (-)-2-methylpiperazines and their
N-methyl derivatives
AU Armarego, Wilfred L. F.; Schou, Henning; Waring, Paul
CS John Curtin Sch. Med. Res., Aust. Natl. Univ., Canberra, 2600, Australia
SO J. Chem. Res., Synop. (1980), (4), 133
CODEN: JRPSDC; ISSN: 0308-2342
DT Journal
LA English
IT **75336-97-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and hydrolysis of)
RN 75336-97-9 CAPLUS
CN Piperazine, 1,2,4-trimethyl-, (S)-, compd. with 2,4,6-trinitrophenol
(1:3)
(9CI) (CA INDEX NAME)

CM 1

CRN 75336-96-8
CMF C7 H16 N2
CDES 1:S

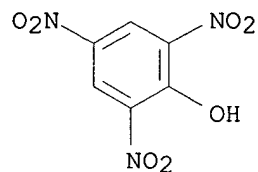
Absolute stereochemistry.



CM 2

CRN 88-89-1

CMF C6 H3 N3 O7



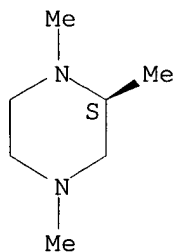
IT 74879-17-7P 75336-91-3P 75364-80-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 74879-17-7 CAPLUS

CN Piperazine, 1,2,4-trimethyl-, dihydrochloride, (S)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.

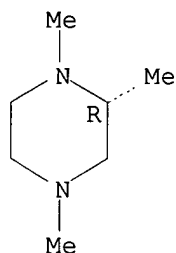


● 2 HCl

RN 75336-91-3 CAPLUS

CN Piperazine, 1,2,4-trimethyl-, dihydrochloride, (R)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.



● 2 HCl

RN 75364-80-6 CAPLUS

L15 ANSWER 25 OF 49 CAPLUS COPYRIGHT 2000 ACS

AN 1980:550214 CAPLUS

DN 93:150214

TI Absolute configuration of 6-methyl-5,6,7,8-tetrahydropterin produced by enzymic reduction (dihydrofolate reductase and NADPH) of 6-methyl-7,8-dihydropterin

AU Armarego, Wilfred L. F.; Waring, Paul; Williams, Jeffrey W.

CS John Curtin Sch. Med. Res., Aust. Natl. Univ., Canberra, 2601, Australia

SO J. Chem. Soc., Chem. Commun. (1980), (8), 334-6

CODEN: JCCCAT; ISSN: 0022-4936

DT Journal

LA English

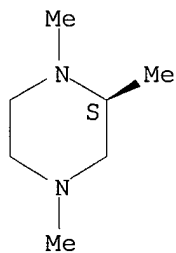
IT **74879-17-7P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 74879-17-7 CAPLUS

CN Piperazine, 1,2,4-trimethyl-, dihydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



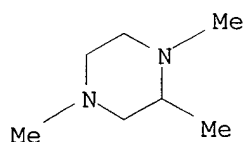
● 2 HCl

L15 ANSWER 26 OF 49 CAPLUS COPYRIGHT 2000 ACS

AN 1976:43099 CAPLUS

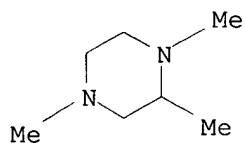
Searched by John Dantzman 703-308-4488

DN 84:43099
TI Ultrasonic relaxation associated with nitrogen and ring inversion in piperidines, piperidones, morpholines, and piperazines
AU Gittins, Vivian M.; Heywood, Peter J.; Wyn-Jones, Evan
CS Dep. Chem. Appl. Chem., Univ. Salford, Salford, Engl.
SO J. Chem. Soc., Perkin Trans. 2 (1975), (14), 1642-6
CODEN: JCPKBH
DT Journal
LA French
IT **120-85-4**
RL: PRP (Properties)
(ultrasonic relaxation in, conformational equil. in relation to)
RN 120-85-4 CAPLUS
CN Piperazine, 1,2,4-trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



L15 ANSWER 27 OF 49 CAPLUS COPYRIGHT 2000 ACS
AN 1974:478675 CAPLUS
DN 81:78675
TI Poly(glycidic acid)
IN Vogt, Herwart V.; Davis, Pauls
PA BASF Wyandotte Corp.
SO U.S., 4 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	US 3790625	A	19740205	US 1970-66618	19700824
IT	120-85-4				
	RL: CAT (Catalyst use); USES (Uses) (catalysts, for polymn. of potassium glycidate)				
RN	120-85-4 CAPLUS				
CN	Piperazine, 1,2,4-trimethyl- (6CI, 7CI, 8CI, 9CI)			(CA INDEX NAME)	



L15 ANSWER 28 OF 49 CAPLUS COPYRIGHT 2000 ACS
AN 1974:450668 CAPLUS
DN 81:50668
TI Polyurethane adhesives for glass-fiber-reinforced polyester laminates
Searched by John Dantzman 703-308-4488

IN Larson, William M.; Bender, Newell R.

PA Goodyear Tire and Rubber Co.

SO U.S., 2 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

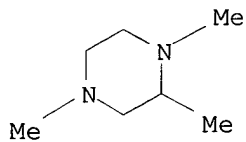
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3812003	A	19740521	US 1972-217230	19720112
	US 3935051	A	19760127	US 1974-444210	19740221
PRAI	US 1964-360753	19640417			
	US 1969-833855	19690529			
	US 1970-9131	19700211			
	US 1972-217230	19720112			

IT 120-85-4

RL: CAT (Catalyst use); USES (Uses).
(catalysts, with dibutyltin dilaurate, crosslinking polyurethane adhesives)

RN 120-85-4 CAPLUS

CN Piperazine, 1,2,4-trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



L15 ANSWER 29 OF 49 CAPLUS COPYRIGHT 2000 ACS

AN 1974:439153 CAPLUS

DN 81:39153

TI Polyurethane sealant-primer system

IN De Santis, G. William

PA Essex Chemical Corp.

SO U.S., 6 pp. Division of U.S. 3,707,521 (CA 78;861345).

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

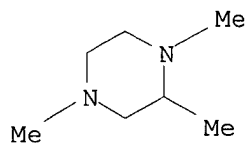
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3779794	A	19731218	US 1972-222398	19720131
	US 3707521	A	19721226	US 1970-16924	19700305
PRAI	US 1970-16924	19700305			

IT 120-85-4

RL: CAT (Catalyst use); USES (Uses).
(catalysts, for crosslinking of polyurethane sealant-primer systems)

RN 120-85-4 CAPLUS

CN Piperazine, 1,2,4-trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



L15 ANSWER 30 OF 49 CAPLUS COPYRIGHT 2000 ACS
AN 1974:141107 CAPLUS
DN 80:141107
TI Pharmacological analysis of the role of the nervous system in
inflammation
AU Trinus, F. P.
CS Kiev, USSR
SO Farmakol. Toksikol. (Kiev) (1973), No. 8, 40-7
CODEN: FATOBP
DT Journal
LA Russian